

# 300APTM-C

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TNC Male for CNT-300 braided cable

**OBSOLETE**

This product was discontinued on: May 15, 2019

## Product Classification

|                      |                         |
|----------------------|-------------------------|
| <b>Product Type</b>  | Braided cable connector |
| <b>Product Brand</b> | CNT®                    |

## General Specifications

|                                        |            |
|----------------------------------------|------------|
| <b>Body Style</b>                      | Straight   |
| <b>Inner Contact Attachment Method</b> | Captivated |
| <b>Inner Contact Plating</b>           | Gold       |
| <b>Interface</b>                       | TNC Male   |
| <b>Outer Contact Attachment Method</b> | Clamp      |
| <b>Outer Contact Plating</b>           | Trimetal   |

## Dimensions

|                     |                   |
|---------------------|-------------------|
| <b>Width</b>        | 16.5 mm   0.65 in |
| <b>Length</b>       | 43.17 mm   1.7 in |
| <b>Diameter</b>     | 16.5 mm   0.65 in |
| <b>Nominal Size</b> | 0.300 in          |

## Electrical Specifications

|                                          |                   |
|------------------------------------------|-------------------|
| <b>Insertion Loss, typical</b>           | 0.05 dB           |
| <b>Average Power at Frequency</b>        | 360.0 W @ 900 MHz |
| <b>Cable Impedance</b>                   | 50 ohm            |
| <b>Connector Impedance</b>               | 50 ohm            |
| <b>dc Test Voltage</b>                   | 1500 V            |
| <b>Inner Contact Resistance, maximum</b> | 1.5 mOhm          |
| <b>Insulation Resistance, minimum</b>    | 5000 MOhm         |
| <b>Operating Frequency Band</b>          | 0 – 6000 MHz      |

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|                                             |          |
|---------------------------------------------|----------|
| <b>Outer Contact Resistance, maximum</b>    | 0.4 mOhm |
| <b>Peak Power, maximum</b>                  | 5 kW     |
| <b>RF Operating Voltage, maximum (vrms)</b> | 500 V    |

## VSWR/Return Loss

| <b>Frequency Band</b> | <b>VSWR</b> | <b>Return Loss (dB)</b> |
|-----------------------|-------------|-------------------------|
| <b>0–3000 MHz</b>     | 1.065       | 30.04                   |
| <b>3000–6000 MHz</b>  | 1.222       | 20.01                   |

## Mechanical Specifications

|                                            |                        |
|--------------------------------------------|------------------------|
| <b>Connector Retention Tensile Force</b>   | 220 N   49.458 lbf     |
| <b>Connector Retention Torque</b>          | 0.45 N-m   3.983 in lb |
| <b>Coupling Nut Proof Torque</b>           | 1.7 N-m   15.046 in lb |
| <b>Coupling Nut Proof Torque Method</b>    | IEC 61169-17:9.3.6     |
| <b>Coupling Nut Retention Force</b>        | 445 N   100.04 lbf     |
| <b>Coupling Nut Retention Force Method</b> | IEC 61169-17:9.3.11    |
| <b>Interface Durability</b>                | 500 cycles             |
| <b>Interface Durability Method</b>         | IEC 61169-17:17        |
| <b>Mechanical Shock Test Method</b>        | IEC 60068-2-27         |

## 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>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                       |
| <b>Climatic Sequence Test Method</b>              | IEC 60068-1                           |
| <b>Corrosion Test Method</b>                      | IEC 60068-2-11                        |
| <b>Damp Heat Steady State Test Method</b>         | IEC 60068-2-3                         |
| <b>Immersion Depth</b>                            | 1 m                                   |
| <b>Immersion Test Mating</b>                      | Mated                                 |
| <b>Immersion Test Method</b>                      | IEC 60529:2001, IP68                  |
| <b>Thermal Shock Test Method</b>                  | IEC 60068-2-14                        |

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**Vibration Test Method** IEC 60068-2-6

## Packaging and Weights

**Weight, net** 54.14 g | 0.119 lb

## Regulatory Compliance/Certifications

### Agency

ISO 9001:2015



### Classification

Designed, manufactured and/or distributed under this quality management system

## \* Footnotes

**Insertion Loss, typical**  $0.05\sqrt{\text{freq}}$  (GHz) (not applicable for elliptical waveguide)

**Immersion Depth** Immersion at specified depth for 24 hours