

# 300APTR-C-NC

TNC Male Right Angle for CNT-300 and 5D-FB braided cable, indoor application



## **OBSOLETE**

**This product was discontinued on: July 17, 2018**

### **Replaced By**

300BPTR-C

TNC Male Right Angle for CNT-300 braided cable

## Product Classification

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

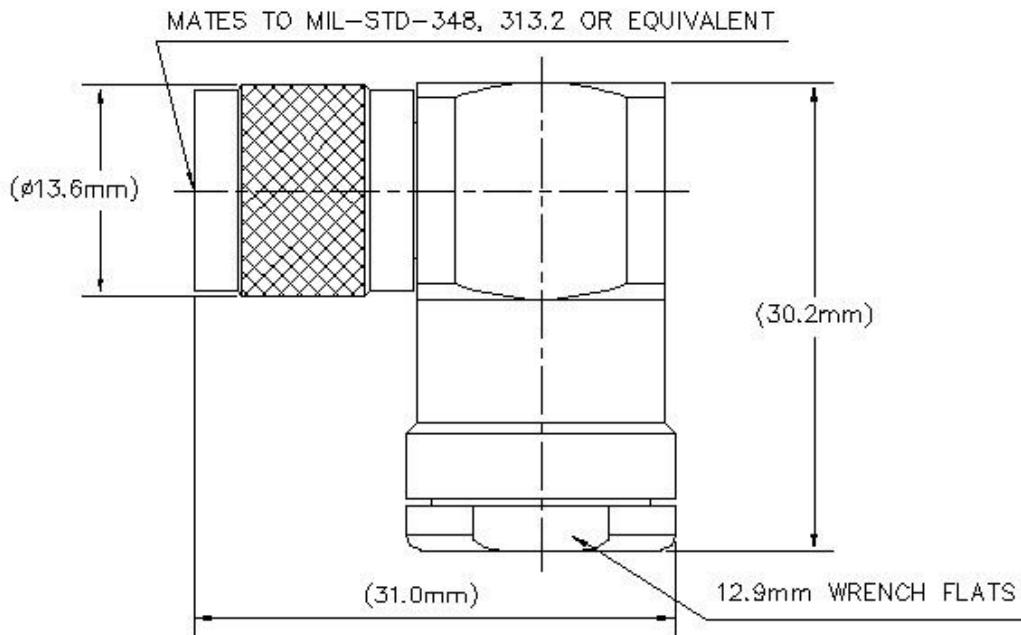
## General Specifications

<b>Interface</b>	TNC Male
<b>Body Style</b>	Right angle

## Electrical Specifications

<b>Operating Frequency Band</b>	0 – 3000 MHz
<b>Average Power at Frequency</b>	360.0 W @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>RF Operating Voltage, maximum (vrms)</b>	500.00 V
<b>dc Test Voltage</b>	1500 V
<b>Outer Contact Resistance, maximum</b>	0.40 mOhm
<b>Inner Contact Resistance, maximum</b>	1.50 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Peak Power, maximum</b>	5.00 kW
<b>Insertion Loss, typical</b>	0.05 dB

## Outline Drawing



## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Clamp
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Gold
<b>Inner Contact Attachment Method</b>	Captivated
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-17:9.5
<b>Connector Retention Tensile Force</b>	254 N   57 lbf
<b>Connector Retention Torque</b>	0.45 N-m   0.33 ft lb
<b>Coupling Nut Proof Torque</b>	1.70 N-m   1.25 ft lb
<b>Coupling Nut Proof Torque Method</b>	IEC 61169-17:9.3.6
<b>Coupling Nut Retention Force</b>	445.00 N   100.04 lbf
<b>Coupling Nut Retention Force Method</b>	IEC 61169-17:9.3.11

## Dimensions

<b>Nominal Size</b>	0.300 in
<b>Height</b>	30.31 mm   1.19 in
<b>Length</b>	30.20 mm   1.19 in
<b>Weight</b>	52.96 g   0.12 lb

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**Width** 16.50 mm | 0.65 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)  
**Mechanical Shock Test Method** IEC 60068-2-27  
**Vibration Test Method** IEC 60068-2-6

## 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)
0–500 MHz	1.07	30.00
500–1000 MHz	1.05	32.00
1000–2000 MHz	1.08	28.00
2000–3000 MHz	1.11	25.66

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



## \* Footnotes

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