

# 300BPTR-C

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TNC Male Right Angle for CNT-300 braided cable

## Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

## General Specifications

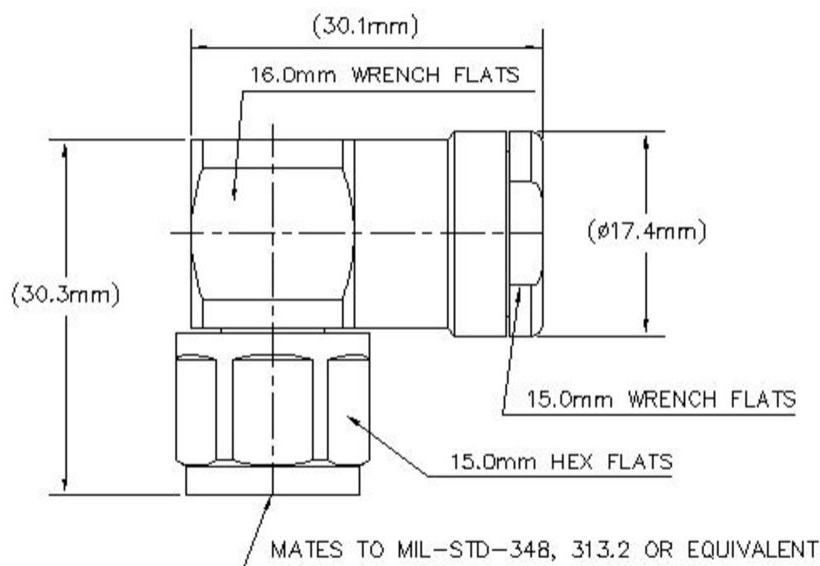
Body Style	Right angle
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	TNC Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

## Dimensions

Height	30.31 mm   1.193 in
Width	16.5 mm   0.65 in
Length	30.1 mm   1.185 in
Nominal Size	0.300 in

## Outline Drawing

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## Electrical Specifications

<b>Insertion Loss, typical</b>	0.05 dB
<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
<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

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## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–500 MHz	1.05	32.26
500–1000 MHz	1.052	31.93
1000–2000 MHz	1.069	29.54
2000–3000 MHz	1.08	28.3
3000–4000 MHz	1.069	29.54
4000–5000 MHz	1.102	26.29
5000–6000 MHz	1.148	23.24

## Mechanical Specifications

Connector Retention Tensile Force	220 N   49.458 lbf
Connector Retention Torque	0.45 N-m   3.983 in lb
Coupling Nut Proof Torque	1.7 N-m   15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-17:9.3.6
Coupling Nut Retention Force	445 N   100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-17:9.3.11
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)
Average Power, Ambient Temperature	40 °C   104 °F
Average Power, Inner Conductor Temperature	100 °C   212 °F
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Vibration Test Method	IEC 60068-2-6

## Packaging and Weights

Weight, net	58.49 g   0.129 lb
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## Regulatory Compliance/Certifications

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



### \* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)