

300APTR-CR

**TNC Male Right Angle for CNT-300 braided cable**

**OBSOLETE**

Replaced By

300BPTR-C

TNC Male Right Angle for CNT-300 braided cable

## Product Classification

Brand	CNT®
Product Type	Braided cable connector

## General Specifications

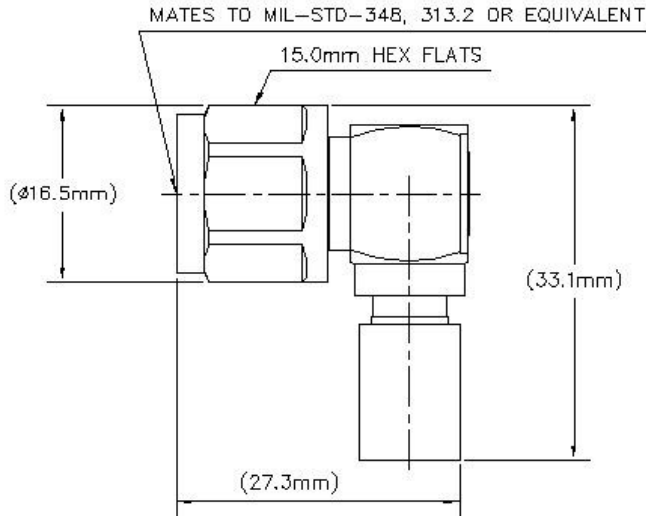
Interface	TNC Male
Body Style	Right angle
Brand	CNT®

## Electrical Specifications

Operating Frequency Band	0 – 6000 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	500.00 V
dc Test Voltage	1500 V
Outer Contact Resistance, maximum	0.40 mOhm
Inner Contact Resistance, maximum	1.50 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	360.0 W @ 900 MHz
Peak Power, maximum	5.00 kW
Insertion Loss, typical	0.05 dB

300APTR-CR

## Outline Drawing



## Mechanical Specifications

Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Inner Contact Attachment Method	Solder
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-17:17
Connector Retention Tensile Force	220 N   49 lbf
Connector Retention Torque	0.45 N-m   0.33 ft lb
Insertion Force	15.00 N   3.37 lbf
Insertion Force Method	IEC 61169-17:9.3.5
Pressurizable	No
Coupling Nut Proof Torque	1.70 N-m   1.25 ft lb
Coupling Nut Proof Torque Method	IEC 61169-17:9.3.6
Coupling Nut Retention Force	445.00 N   100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-17:9.3.11

## Dimensions

Nominal Size	0.300 in
Height	27.31 mm   1.08 in
Length	33.12 mm   1.30 in
Weight	31.23 g   0.07 lb
Width	16.50 mm   0.65 in

## Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
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300APTR-CR

Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP65
Mechanical Shock Test Method	IEC 60068-2-27
Climatic Sequence Test Method	IEC 60068-1
Damp Heat Steady State Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	IEC 60068-2-11

## 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)
0–3000 MHz	1.12	24.70

## Regulatory Compliance/Certifications

Agency	Classification
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

Insertion Loss, typical 0.05v<sup>-</sup>freq (GHz) (not applicable for elliptical waveguide)