

# 300PNM-C-NC

Type N Male for CNT-300 and 5D-FB braided cable



**OBSOLETE**

This product was discontinued on: July 17, 2018

**Replaced By:**

300BPNM-C-G      Type N Male for CNT-300 braided cable

## Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

## General Specifications

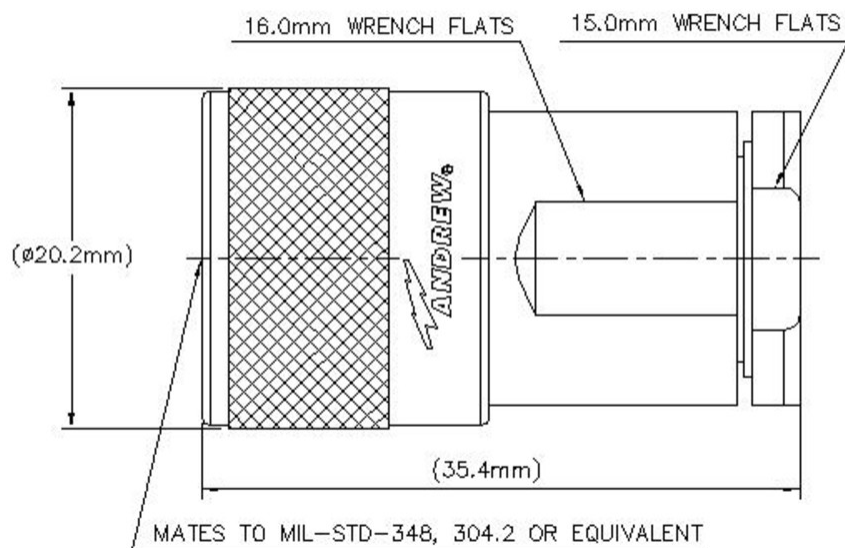
Body Style	Straight
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	N Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

## Dimensions

Length	35.67 mm   1.404 in
Diameter	20.24 mm   0.797 in
Nominal Size	0.300 in

## Outline Drawing

# 300PNM-C-NC



## Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	360.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2000 V
Inner Contact Resistance, maximum	1 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.25 mOhm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–960 MHz	1.036	35.05
960–1000 MHz	1.052	31.93
1000–2000 MHz	1.083	28
2000–6000 MHz	1.222	20.01

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## 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 61169-16:9.3.6
<b>Coupling Nut Retention Force</b>	450 N   101.164 lbf
<b>Coupling Nut Retention Force Method</b>	IEC 61169-16:9.3.11
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<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
<b>Vibration Test Method</b>	IEC 60068-2-6

## Packaging and Weights

<b>Weight, net</b>	47.68 g   0.105 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC  
ROHS

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)  
Compliant



\* Footnotes

**Insertion Loss, typical**

0.05v~freq (GHz) (not applicable for elliptical waveguide)

**Immersion Depth**

Immersion at specified depth for 24 hours