

# 300PNR-C

Type N Male Right Angle for CNT-300 braided cable



## **OBSOLETE**

This product was discontinued on: June 18, 2012

### **Replaced By:**

300BPNR-C	Type N Male Right Angle for CNT-300 braided cable
300BPNR-C-G	Type N Male Right Angle for CNT-300 braided cable

## Product Classification

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

## General Specifications

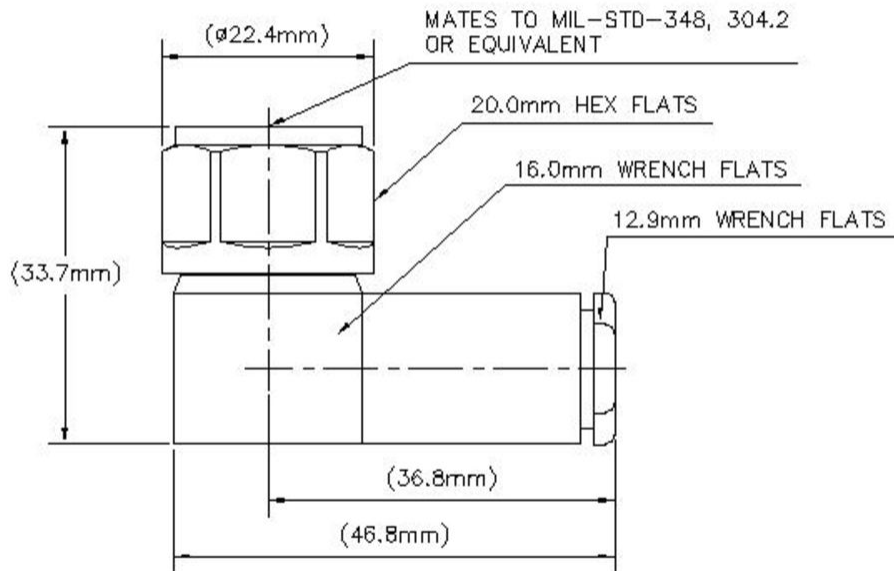
<b>Body Style</b>	Right angle
<b>Inner Contact Attachment Method</b>	Captivated
<b>Inner Contact Plating</b>	Gold
<b>Interface</b>	N Male
<b>Outer Contact Attachment Method</b>	Clamp
<b>Outer Contact Plating</b>	Silver

## Dimensions

<b>Height</b>	33.71 mm   1.327 in
<b>Width</b>	22.35 mm   0.88 in
<b>Length</b>	46.75 mm   1.841 in
<b>Nominal Size</b>	0.300 in

## Outline Drawing

# 300PNR-C



## 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>	2000 V
<b>Inner Contact Resistance, maximum</b>	1 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 6000 MHz
<b>Outer Contact Resistance, maximum</b>	0.25 mOhm
<b>Peak Power, maximum</b>	10 kW
<b>RF Operating Voltage, maximum (vrms)</b>	707 V

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## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.082	28.1
3000–6000 MHz	1.195	21.03

## 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 61169-16:9.3.6
Coupling Nut Retention Force	450 N   101.164 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
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
Climatic Sequence Test Method	IEC 60068-1
Corrosion Test Method	IEC 60068-2-11
Damp Heat Steady State Test Method	IEC 60068-2-3
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

## Packaging and Weights

Weight, net	265 g   0.584 lb
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## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

**Classification**

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)