

# Product Specifications

## 300PNF-C-CR

Type N Female for CNT-300 braided cable



## CHARACTERISTICS

### General Specifications

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Interface	N Female
Body Style	Straight
Brand	CNT™

### Electrical Specifications

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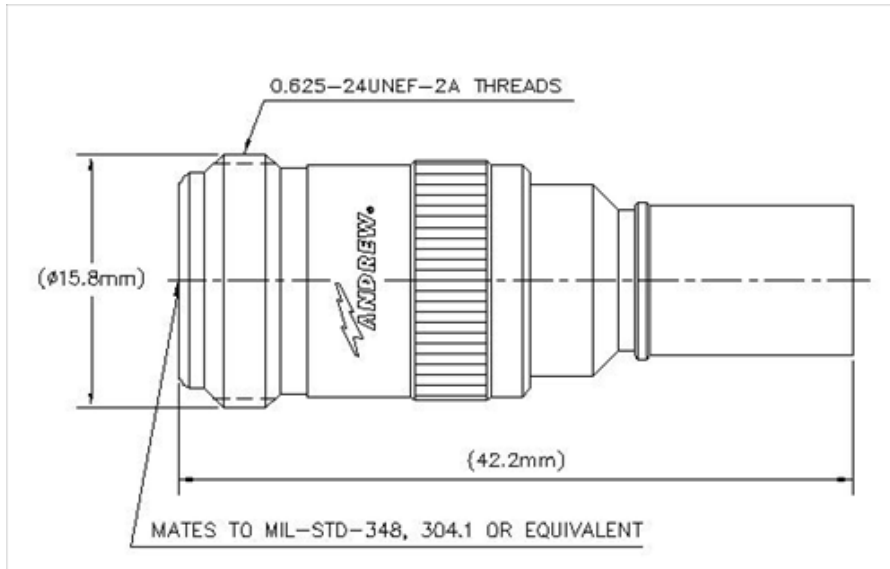
Operating Frequency Band	0 – 6000 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	707.00 V
dc Test Voltage	2000 V
Outer Contact Resistance, maximum	0.25 mOhm
Inner Contact Resistance, maximum	1.00 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	360.0 W @ 900 MHz
Peak Power, maximum	10.00 kW
Insertion Loss, typical	0.05 dB

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## Outline Drawing



## Mechanical Specifications

Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Outer Contact Attachment Method	Crimp
Inner Contact Attachment Method	Captivated
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	220 N   49 lbf
Connector Retention Torque	0.45 N-m   0.33 ft lb
Insertion Force	28.00 N   6.29 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Pressurizable	No

## Dimensions

Nominal Size	0.300 in
Diameter	15.87 mm   0.62 in
Length	42.20 mm   1.66 in
Weight	29.66 g   0.07 lb
Width	15.87 mm   0.62 in

## Environmental Specifications

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# Product Specifications

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

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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

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Frequency Band	VSWR	Return Loss (dB)
0-3000 MHz	1.04	35.00
3000-6000 MHz	1.22	20.00

## Regulatory Compliance/Certifications

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Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)



## \* Footnotes

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