

# Product Specifications

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## PLU010450

Type N Male for CNT 400 braided cable

### General Specifications

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Interface	N Male
Body Style	Straight
Brand	CNT®

### Electrical Specifications

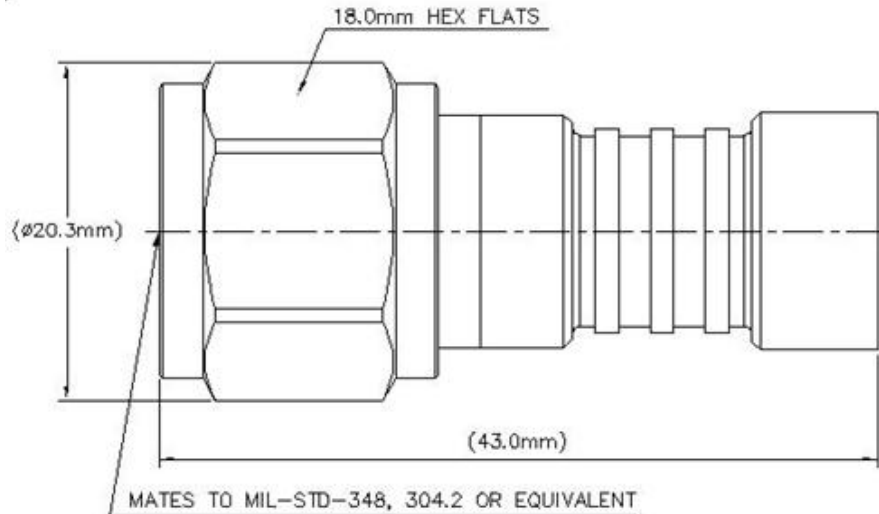
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Operating Frequency Band	0 – 6000 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	707.00 V
dc Test Voltage	2500 V
Outer Contact Resistance, maximum	0.25 mOhm
Inner Contact Resistance, maximum	1.00 mOhm
Insulation Resistance, minimum	5000 MOhm
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	330 N   74 lbf
Connector Retention Torque	0.56 N m   0.41 ft lb
Coupling Nut Proof Torque	1.70 N m   1.25 ft lb
Coupling Nut Proof Torque Method	IEC 61169 16:9.3.6
Coupling Nut Retention Force	450.00 N   101.16 lbf
Coupling Nut Retention Force Method	IEC 61169 16:9.3.11

### Dimensions

Nominal Size	0.405 in
Diameter	20.25 mm   0.80 in
Length	43.00 mm   1.69 in
Weight	32.42 g   0.07 lb
Width	20.25 mm   0.80 in

### 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)

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Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
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	1.04	35.00
3000–6000 MHz	1.15	23.00

## 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

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	0.05v <sup>-</sup> freq (GHz) (not applicable for elliptical waveguide)