300BPNR-C

Type N Male Right Angle for CNT-300 braided cable

Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

Body Style	Right angle
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	N Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

Dimensions

Height	33.22 mm | 1.308 in
Width	20.25 mm | 0.797 in
Length	34.14 mm | 1.344 in
Nominal Size	0.300 in

Outline Drawing

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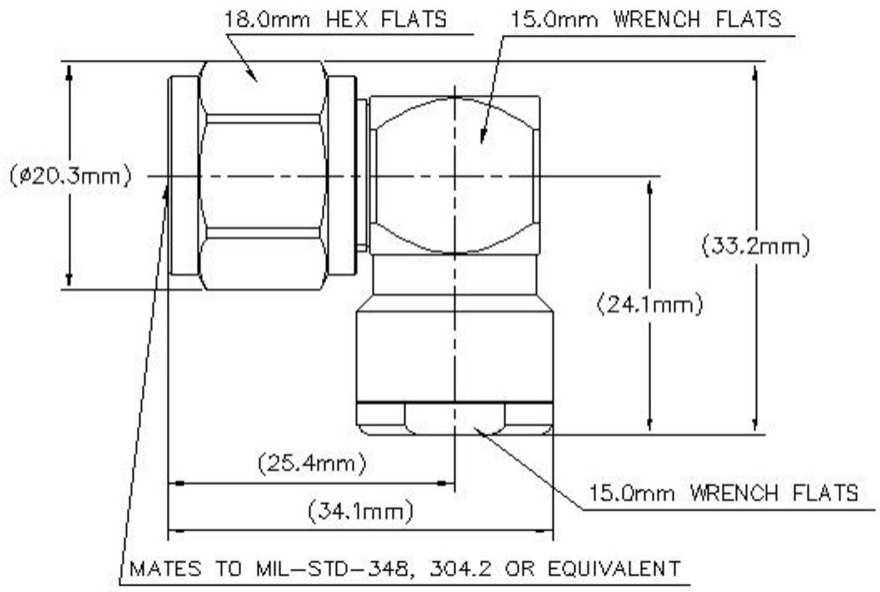

Electrical Specifications

Insertion Loss, typical	0.05 dB
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	1.025	38.17
1000–2000 MHz	1.065	30.04
2000–3000 MHz	1.065	30.04
3000–6000 MHz	1.18	22

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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)
Attenuation, Ambient Temperature	20 °C | 68 °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	58.84 g | 0.13 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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* Footnotes

Insertion Loss, typical	0.05√¯freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours