C400-NMNF-1M5

CNT-400 CNT $\ensuremath{\mathbb{R}}$ Jumper with interface types N Male and N Female, 1.5 m

Product Classification

Product Type Braided cable assembly	
Product Brand	CNT®
Product Series	CNT-400
General Specifications	
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Cable Family	CNT-400
Interface, Connector A	N Male
Interface, Connector B	N Female
Specification Sheet Revision Level	А
Dimensions	
Length	1.5 m 4.921 ft
Nominal Size	0.400 in
VSWR/Return Loss	

Frequency Band	VSWR	Return Loss (dB)
700–2000 MHz	1.222	20.01
2000–3000 MHz	1.288	18

Jumper Assembly Sample Label

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C400-NMNF-1M5



Included Products

400BPNF-C	-	Type N Female for CNT-400 braided cable
400BPNM-C	-	Type N Male for CNT-400 braided cable
CNT-400	_	CNT-400, CNT® 50 Ohm Braided Coaxial Cable, variable, black PE
		jacket

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Product Classification

Product Type

Product Brand

General Specifications

Body Style	Straight
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	N Female
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Dimensions	
Width	18 mm 0.709 in
Length	40.55 mm 1.596

Length Diameter Nominal Size

Type N Female for CNT-400 braided cable

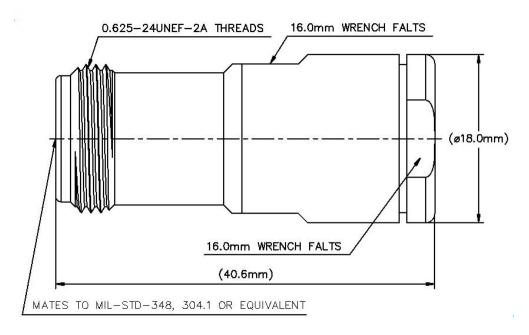
Braided cable connector			
CNT®		ConQuest®	
Straigh	t		
Cantiva	iter	4	

18 mm | 0.709 in 40.55 mm | 1.596 in 18 mm | 0.709 in 0.405 in

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Outline Drawing



Electrical Specifications

Insertion Loss, typical	0.05 dB
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	1 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.25 m0hm
RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.05	32.26
3000-6000 MHz	1.12	24.95

Mechanical Specifications

Connector Retention Tensile Force

330 N | 74.187 lbf



Connector Retention Torque	0.56 N-m 4.956 in lb
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

44.58 g | 0.098 lb

Regulatory Compliance/Certifications

Agency

CHINA-ROHS

ISO 9001:2015





Classification Above maximum concentration value Designed, manufactured and/or distributed under this quality management system Compliant/Exempted

* Footnotes

Insertion Loss, typical 0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

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Immersion Depth

Immersion at specified depth for 24 hours

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Product Classification

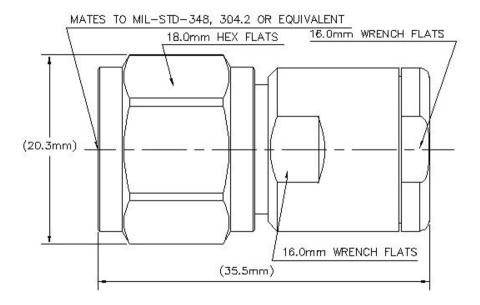
Type N Male for CNT-400 braided cable

Product Type	Braided cable connector	
Product Brand	CNT® ConQuest®	
General Specifications		
Body Style	Straight	
Inner Contact Attachment Method	Captivated	
Inner Contact Plating	Silver	
Interface	N Male	
Outer Contact Attachment Method	Clamp	
Outer Contact Plating	Trimetal	
Dimensions		
Width	20.25 mm 0.797 in	
Length	35.48 mm 1.397 in	
Diameter	20.25 mm 0.797 in	
Nominal Size	0.405 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	2500 V
Inner Contact Resistance, maximum	1 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.25 m0hm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)	
0–3000 MHz	1.046	32.96	
3000-6000 MHz	1.18	22	
Mechanical Specifications			
Connector Retention Tensile Force		330 N 74.187 lbf	
Connector Retention Torque		0.56 N-m 4.956 in lb	

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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

37.55 g | 0.083 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

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* Footnotes

Insertion Loss, typical 0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth

Immersion at specified depth for 24 hours

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CNT-400

CNT-400, CNT® 50 Ohm Braided Coaxial Cable, variable, black PE jacket



Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	CNT-400
General Specifications	
Braid Coverage	90 %
Cable Type	CNT-400
Jacket Color	Black
Dimensions	
Diameter Over Dielectric	7.24 mm 0.285 in
Diameter Over Jacket	10.29 mm 0.405 in
Diameter Over Tape	7.391 mm 0.291 in
Inner Conductor OD	2.74 mm 0.108 in
Outer Conductor OD	8.08 mm 0.318 in
Nominal Size	0.400 in
Electrical Specifications	
Cable Impedance	50 ohm
Capacitance	78 pF/m 23.774 pF/ft
dc Resistance, Inner Conductor	4.69 ohms/km 1.43 ohms/kft
dc Resistance, Outer Conductor	5.61 ohms/km 1.71 ohms/kft

2500 V

Jacket Spark Test Voltage (rms) 4000 V

dc Test Voltage

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CNT-400

Maximum Frequency	16.2 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	16 kW
Shielding Effectiveness	90 dB
Velocity	85 %

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30.0	2.49	0.76
50.0	3.18	0.97
150.0	4.92	1.5
220.0	6.23	1.9
450.0	8.86	2.7
900.0	12.8	3.9
1500.0	16.7	5.1
1800.0	18.4	5.6
2000.0	19.4	5.9
2400.0	21.65	6.6
2500.0	22	6.7
3000.0	24.6	7.5
4000.0	28.87	8.8
4500.0	30.84	9.4
5000.0	32.81	10
5200.0	33.46	10.2
5500.0	34.78	10.6
5800.0	35.76	10.9
6000.0	36.42	11.1

Material Specifications

Braid Material	Tinned copper
Dielectric Material	Foam PE
Jacket Material	Non-halogenated PE
Inner Conductor Material	Copper-clad aluminum wire
Shield Tape Material	Aluminum

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CNT-400

Mechanical Specifications

Minimum Bend Radius, single Bend	25.4 mm 1 in
Tensile Strength	73 kg 160.937 lb
Bending Moment	0.7 N-m 6.196 in lb
Flat Plate Crush Strength	0.7 kg/mm 39.198 lb/in

Environmental Specifications

Installation temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

Packaging and Weights

Cable weight

0.1 kg/m | 0.067 lb/ft

Regulatory Compliance/Certifications

Agency

ROHS

Classification

CHINA-ROHS ISO 9001:2015 REACH-SVHC Below maximum concentration value Designed, manufactured and/or distributed under this quality management system Compliant as per SVHC revision on www.commscope.com/ProductCompliance Compliant



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