

# C400-NFNF

Base Product



## Product Classification

Product Type	Braided cable assembly
Product Brand	CNT®
Product Series	CNT-400

## General Specifications

Attachment, Connector A	Field attachment
Attachment, Connector B	Field attachment
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Cable Family	CNT-400
Interface, Connector A	N Female
Interface, Connector B	N Female
Specification Sheet Revision Level	A
Variable Length	For custom lengths, contact your local ANDREW representative

## Dimensions

Length	0 m   0 ft
Nominal Size	0.400 in

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.433	14.99

## Jumper Assembly Sample Label

# C400-NFNF



## Regulatory Compliance/Certifications

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

## Included Products

400PNF-C	- Type N Female for CNT-400 braided cable
CNT-400	- CNT-400, CNT® 50 Ohm Braided Coaxial Cable, variable, black PE jacket
CNT-400-SFR	- CNT-400-SFR, C CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, B2ca S1a d0 a1 Compliant
CNT-400-W	- CNT-400-W, CNT® 50 Ohm Braided Coaxial Cable, variable, white PE jacket

# 400PNF-C



Type N Female for CNT-400 braided cable

## Product Classification

Product Type	Braided cable connector
Product Brand	CNT®   ConQuest®

## General Specifications

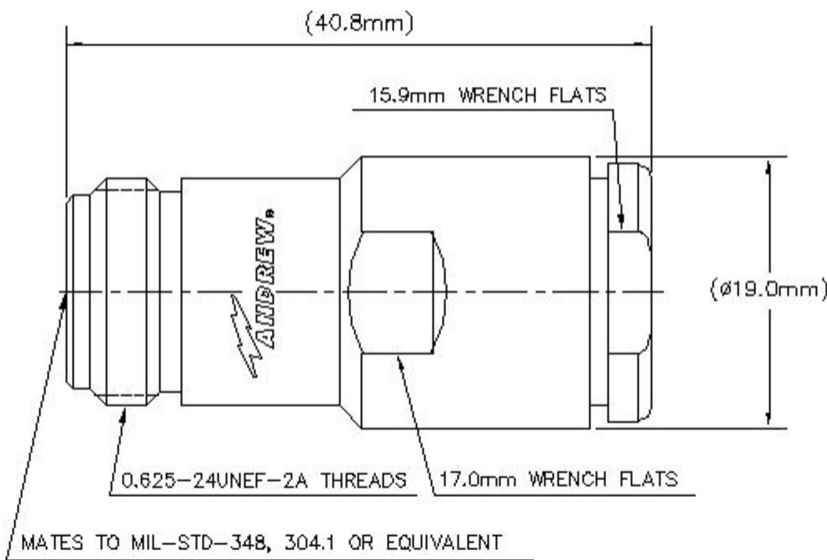
Body Style	Straight
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	N Female
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Pressurizable	No

## Dimensions

Width	19 mm   0.748 in
Length	40.84 mm   1.608 in
Diameter	19 mm   0.748 in
Nominal Size	0.405 in

## Outline Drawing

# 400PNF-C



## Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	580.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 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)
0–3000 MHz	1.045	33.15
3000–6000 MHz	1.172	22.03

## Mechanical Specifications

Connector Retention Tensile Force	330 N   74.187 lbf
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# 400PNF-C

Connector Retention Torque	0.56 N-m   4.956 in lb   0.75 N-m   6.638 in lb
Insertion Force	28 N   6.295 lbf
Insertion Force Method	IEC 61169-16:9.3.5
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	53.19 g   0.117 lb
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## Regulatory Compliance/Certifications

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

## \* Footnotes

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

# 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
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	4000 V
Maximum Frequency	16.2 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	16 kW

# CNT-400

Shielding Effectiveness	90 dB
Velocity	85 %
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

## 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
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## 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



# CNT-400-SFR



CNT-400-SFR, C CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, B2ca S1a d0 a1 Compliant

## 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	4.49 ohms/km   1.369 ohms/kft
dc Resistance, Outer Conductor	5.61 ohms/km   1.71 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	4000 V
Maximum Frequency	16.2 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	16 kW



# CNT-400-SFR

Shielding Effectiveness	90 dB
Velocity	85 %
Material Specifications	
Braid Material	Tinned copper
Dielectric Material	Foam PE
Jacket Material	Non-halogenated, fire retardant polyolefin
Inner Conductor Material	Copper-clad aluminum wire
Shield Tape Material	Aluminum

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 +60 °C (-40 °F to +140 °F)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Smoke Index Test Method	IEC 61034
Toxicity Index Test Method	IEC 60754-2

Packaging and Weights	
Cable weight	0.1 kg/m   0.067 lb/ft

Regulatory Compliance/Certifications	
Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

# CNT-400-SFR

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# CNT-400-W

CNT-400-W, CNT® 50 Ohm Braided Coaxial Cable, variable, white 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	White

## 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
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	4000 V

# CNT-400-W

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

## 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

## 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
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## Regulatory Compliance/Certifications

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