

# CNT-400-FR



CNT-400-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 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

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<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	16 kW
<b>Shielding Effectiveness</b>	90 dB
<b>Velocity</b>	85 %

## Attenuation

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

## Material Specifications

<b>Braid Material</b>	Tinned copper
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	Non-halogenated, fire retardant polyolefin
<b>Inner Conductor Material</b>	Copper-clad aluminum wire
<b>Shield Tape Material</b>	Aluminum

## Mechanical Specifications

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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	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d2
Fire Retardancy Test Method	UL VW1/CATVX
Smoke Index Test Method	IEC 61034
Toxicity Index Test Method	IEC 60754-2

## Packaging and Weights

Cable weight	0.07 kg/m   0.047 lb/ft
Packaging Type	Reel

## Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
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.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

