

# 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

<b>Brand</b>	CNT®
<b>Product Series</b>	CNT-400
<b>Product Type</b>	Braided coaxial cable

## Standards And Qualifications

<b>EN50575 CPR Cable EuroClass</b>	Dca   s2   d2
------------------------------------	---------------

## Construction Materials

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

## Dimensions

<b>Cable Weight</b>	0.07 kg/m
<b>Diameter Over Dielectric</b>	7.240 mm   0.285 in
<b>Diameter Over Jacket</b>	10.290 mm   0.405 in
<b>Diameter Over Tape</b>	7.391 mm   0.291 in
<b>Inner Conductor OD</b>	2.7400 mm   0.1079 in
<b>Nominal Size</b>	0.400 in
<b>Outer Conductor OD</b>	8.080 mm   0.318 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	78.0 pF/m   23.8 pF/ft
<b>dc Resistance, Inner Conductor</b>	4.490 ohms/km

# CNT-400-FR

---

<b>dc Resistance, Outer Conductor</b>	5.610 ohms/km
<b>dc Test Voltage</b>	2500 V
<b>Jacket Spark Test Voltage (rms)</b>	4000 V
<b>Maximum Frequency</b>	16.20 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	16.0 kW
<b>Shielding Effectiveness, minimum</b>	90 dB
<b>Velocity</b>	85 %

## Environmental Specifications

<b>Installation Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Operating Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Storage Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)

## General Specifications

<b>Cable Type</b>	CNT-400
<b>Braid Coverage</b>	90 %
<b>Packaging Type</b>	Reel

## Mechanical Specifications

<b>Bending Moment</b>	0.7 N-m   0.5 ft lb
<b>Fire Retardancy Test Method</b>	UL VW1/CATVX
<b>Flat Plate Crush Strength</b>	0.7 kg/mm
<b>Minimum Bend Radius, Single Bend</b>	25.40 mm   1.00 in
<b>Smoke Index Test Method</b>	IEC 61034
<b>Tensile Strength</b>	73 kg   161 lb
<b>Toxicity Index Test Method</b>	IEC 60754-2

## Electrical Performance

<b>Frequency</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30 MHz	2.49	0.76
50 MHz	3.18	0.97
150 MHz	4.92	1.50
220 MHz	6.23	1.90
450 MHz	8.86	2.70
900 MHz	12.80	3.90
1500 MHz	16.70	5.10
1800 MHz	18.40	5.60
2000 MHz	19.40	5.90
2400 MHz	21.65	6.60
2500 MHz	22.00	6.70
3000 MHz	24.60	7.50

# CNT-400-FR

---

4000 MHz	28.87	8.80
4500 MHz	30.84	9.40
5000 MHz	32.81	10.00
5200 MHz	33.46	10.20
5500 MHz	34.78	10.60
5800 MHz	35.76	10.90
6000 MHz	36.42	11.10

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

CENELEC

### Classification

Compliant

Designed, manufactured and/or distributed under this quality management system

Below Maximum Concentration Value (MCV)

EN 50575 compliant, Declaration of Performance (DoP) available

