

# CNT-600-FR

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CNT-600-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-600
<b>Product Type</b>	Braided coaxial cable

## Standards And Qualifications

<b>EN50575 CPR Cable EuroClass</b>	Dca   s2   d2
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## 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>	0.13 kg/m
<b>Diameter Over Dielectric</b>	11.560 mm   0.455 in
<b>Diameter Over Jacket</b>	14.990 mm   0.590 in
<b>Inner Conductor OD</b>	4.4700 mm   0.1760 in
<b>Nominal Size</b>	0.600 in
<b>Outer Conductor OD</b>	12.500 mm   0.492 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	76.0 pF/m   23.2 pF/ft
<b>dc Resistance, Inner Conductor</b>	1.740 ohms/km
<b>dc Resistance, Outer Conductor</b>	3.940 ohms/km

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<b>dc Test Voltage</b>	4600 V
<b>Jacket Spark Test Voltage (rms)</b>	8000 V
<b>Maximum Frequency</b>	10.20 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	40.0 kW
<b>Shielding Effectiveness, minimum</b>	90 dB
<b>Velocity</b>	87 %

## 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-600
<b>Braid Coverage</b>	90 %
<b>Packaging Type</b>	Reel

## Mechanical Specifications

<b>Bending Moment</b>	3.7 N-m   2.7 ft lb
<b>Fire Retardancy Test Method</b>	UL VW1/CATVX
<b>Flat Plate Crush Strength</b>	1.1 kg/mm
<b>Minimum Bend Radius, Single Bend</b>	38.10 mm   1.50 in
<b>Smoke Index Test Method</b>	IEC 61034
<b>Tensile Strength</b>	159 kg   351 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	1.60	0.49
50 MHz	1.97	0.60
150 MHz	3.20	0.97
220 MHz	3.80	1.17
450 MHz	5.60	1.71
900 MHz	8.20	2.50
1500 MHz	10.80	3.30
1800 MHz	12.10	3.70
2000 MHz	12.80	3.90
2400 MHz	14.44	4.40
2500 MHz	14.80	4.50
3000 MHz	16.40	5.00
4000 MHz	19.36	5.90

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4500 MHz	21.00	6.40
5000 MHz	22.31	6.80
5200 MHz	22.97	7.00
5500 MHz	23.62	7.20
5800 MHz	24.28	7.40
6000 MHz	24.93	7.60

\* Values typical, guaranteed within 5%

## 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

