

# CNT-400-DB

---

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



## Product Classification

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

## General Specifications

<b>Braid Coverage</b>	86 %
<b>Cable Type</b>	CNT-400
<b>Jacket Color</b>	Black

## Dimensions

<b>Diameter Over Dielectric</b>	7.24 mm   0.285 in
<b>Diameter Over Jacket</b>	10.29 mm   0.405 in
<b>Diameter Over Tape</b>	7.391 mm   0.291 in
<b>Inner Conductor OD</b>	2.74 mm   0.108 in
<b>Outer Conductor OD</b>	8.08 mm   0.318 in
<b>Nominal Size</b>	0.400 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	78 pF/m   23.774 pF/ft
<b>dc Resistance, Inner Conductor</b>	4.49 ohms/km   1.369 ohms/kft
<b>dc Resistance, Outer Conductor</b>	5.61 ohms/km   1.71 ohms/kft
<b>dc Test Voltage</b>	2500 V
<b>Jacket Spark Test Voltage (rms)</b>	4000 V

# CNT-400-DB

---

<b>Maximum Frequency</b>	16.2 GHz
<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>
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

<b>Braid Material</b>	Tinned copper
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	PE
<b>Inner Conductor Material</b>	Copper-clad aluminum wire
<b>Shield Tape Material</b>	Aluminum

# CNT-400-DB

---

## Mechanical Specifications

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

## Environmental Specifications

<b>Installation temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Operating Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Storage Temperature</b>	-70 °C to +85 °C (-94 °F to +185 °F)
<b>Corrosion Protection</b>	Flooding compound
<b>Water Jetting Test Method</b>	GR-421-CORE, Section 4.3.5.1

## Packaging and Weights

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

## Regulatory Compliance/Certifications

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

