

# CNT-400-P

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CNT-400, CNT® 50 Ohm Plenum Rated Braided Coaxial Cable, white PVC 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>	90 %
<b>Cable Type</b>	CNT-400
<b>Jacket Color</b>	White

## Dimensions

<b>Diameter Over Dielectric</b>	7.24 mm   0.285 in
<b>Diameter Over Jacket</b>	9.017 mm   0.355 in
<b>Diameter Over Tape</b>	7.391 mm   0.291 in
<b>Inner Conductor OD</b>	2.769 mm   0.109 in
<b>Outer Conductor OD</b>	8.128 mm   0.32 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	77 pF/m   23.47 pF/ft
<b>dc Resistance, Inner Conductor</b>	4.69 ohms/km   1.43 ohms/kft
<b>dc Resistance, Outer Conductor</b>	5.608 ohms/km   1.709 ohms/kft
<b>dc Test Voltage</b>	2500 V
<b>Jacket Spark Test Voltage (rms)</b>	4000 V
<b>Maximum Frequency</b>	16.2 GHz

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<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Velocity</b>	84 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30.0	2.3	0.7
50.0	3.05	0.93
150.0	5.42	1.65
200.0	6.4	1.95
220.0	6.66	2.03
300.0	8.1	2.47
450.0	10.2	3.1
900.0	15.2	4.63
1800.0	22.96	7
2500.0	28.11	8.57
3000.0	31.55	9.62
4000.0	37.92	11.56
4500.0	40.97	12.49
5000.0	43.89	13.38
5200.0	45.03	13.73
5500.0	46.74	14.25
5800.0	48.45	14.77
6000.0	49.56	15.11

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	25.4 mm   1 in
<b>Tensile Strength</b>	55 kg   121.254 lb
<b>Bending Moment</b>	0.7 N-m   6.196 in lb

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## Environmental Specifications

<b>Installation temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Operating Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Fire Retardancy Test Method</b>	NFPA 262/CATVP/CMP

## Packaging and Weights

<b>Cable weight</b>	0.01 kg/m   0.007 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

