

# CNT-300-R

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CNT-300, CNT® 50 Ohm Braided Coaxial Cable, black fire retardant riser rated PVC jacket



**OBSOLETE**

## Product Classification

<b>Product Type</b>	Braided coaxial cable
<b>Product Brand</b>	CNT®
<b>Product Series</b>	CNT-300

## General Specifications

<b>Braid Coverage</b>	90 %
<b>Cable Type</b>	CNT-300
<b>Jacket Color</b>	Black

## Dimensions

<b>Diameter Over Dielectric</b>	4.83 mm   0.19 in
<b>Diameter Over Jacket</b>	7.62 mm   0.3 in
<b>Diameter Over Tape</b>	5.003 mm   0.197 in
<b>Inner Conductor OD</b>	1.78 mm   0.07 in
<b>Outer Conductor OD</b>	4.98 mm   0.196 in
<b>Nominal Size</b>	0.300 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	79.1 pF/m   24.11 pF/ft
<b>dc Resistance, Inner Conductor</b>	6.95 ohms/km   2.118 ohms/kft
<b>dc Resistance, Outer Conductor</b>	8.5 ohms/km   2.591 ohms/kft

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<b>dc Test Voltage</b>	2500 V
<b>Jacket Spark Test Voltage (rms)</b>	3500 V
<b>Maximum Frequency</b>	24.5 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	10 kW
<b>Velocity</b>	85 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30.0	3.8	1.158
50.0	4.9	1.49
150.0	7.9	2.41
220.0	9.5	2.9
450.0	13.1	3.99
900.0	19.4	5.91
1500.0	25.3	7.71
1800.0	28.2	8.59
2000.0	29.8	9.08
2500.0	33.8	10.3
3000.0	37.4	11.4
4000.0	44.61	13.6
4500.0	47.75	14.55
5000.0	50.52	15.4
5200.0	51.83	15.8
5500.0	53.14	16.2
5800.0	54.78	16.7
6000.0	55.8	17

## Material Specifications

<b>Braid Material</b>	Tinned copper
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	Fire retardant PVC
<b>Inner Conductor Material</b>	Copper
<b>Shield Tape Material</b>	Aluminum

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## Mechanical Specifications

**Minimum Bend Radius, single Bend** 22.352 mm | 0.88 in

**Tensile Strength** 55 kg | 121.254 lb

## Environmental Specifications

**Operating Temperature** -40 °C to +75 °C (-40 °F to +167 °F)

**Fire Retardancy Test Method** UL 1666/CATVR

## Packaging and Weights

**Packaging Type** Reel

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

**Classification**

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

