

# CNT-300A-LB

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CNT-300, CNT® 50 Ohm Low Braided Coverage Coaxial Cable, black non-halogenated jacket

## 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>	60 %
<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>Nominal Size</b>	0.300 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	80.4 pF/m   24.506 pF/ft
<b>dc Resistance, Inner Conductor</b>	11.05 ohms/km   3.368 ohms/kft
<b>dc Resistance, Outer Conductor</b>	14.95 ohms/km   4.557 ohms/kft
<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>Shielding Effectiveness</b>	85 dB

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**Velocity** 83 %

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30.0	3.8	1.16
50.0	4.9	1.5
150.0	7.9	2.4
220.0	9.5	2.9
450.0	13.1	4
900.0	19.4	5.9
1500.0	25.3	7.7
1800.0	28.2	8.6
2000.0	29.8	9.1
2500.0	33.8	10.3
3000.0	37.4	11.4

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	22.352 mm   0.88 in
<b>Tensile Strength</b>	20 kg   44.092 lb
<b>Bending Moment</b>	0.3 N-m   2.655 in lb
<b>Flat Plate Crush Strength</b>	0.5 kg/mm   27.999 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)

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## Packaging and Weights

**Cable weight** 0.05 kg/m | 0.034 lb/ft  
**Packaging Type** Reel

## Regulatory Compliance/Certifications

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