

# CNT-600-300M

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CNT-600, CNT® 50 Ohm Braided Coaxial Cable, 300 m, black PE jacket



**OBSOLETE**

## Product Classification

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

## General Specifications

<b>Braid Coverage</b>	90 %
<b>Cable Type</b>	CNT-600
<b>Jacket Color</b>	Black

## Dimensions

<b>Cable Length</b>	300 m   984.252 ft
<b>Reel Flange</b>	550 mm   21.654 in
<b>Reel Hub</b>	254 mm   10 in
<b>Reel Traverse</b>	475 mm   18.701 in
<b>Diameter Over Dielectric</b>	11.56 mm   0.455 in
<b>Diameter Over Jacket</b>	14.99 mm   0.59 in
<b>Inner Conductor OD</b>	4.47 mm   0.176 in
<b>Outer Conductor OD</b>	12.5 mm   0.492 in
<b>Nominal Size</b>	0.600 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
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<b>Capacitance</b>	76 pF/m   23.165 pF/ft
<b>dc Resistance, Inner Conductor</b>	1.74 ohms/km   0.53 ohms/kft
<b>dc Resistance, Outer Conductor</b>	3.94 ohms/km   1.201 ohms/kft
<b>dc Test Voltage</b>	4600 V
<b>Jacket Spark Test Voltage (rms)</b>	8000 V
<b>Maximum Frequency</b>	10.2 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	40 kW
<b>Shielding Effectiveness</b>	90 dB
<b>Velocity</b>	87 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30.0	1.6	0.49
50.0	1.97	0.6
150.0	3.2	0.97
220.0	3.8	1.17
450.0	5.6	1.71
900.0	8.2	2.5
1500.0	10.8	3.3
1800.0	12.1	3.7
2000.0	12.8	3.9
2400.0	14.44	4.4
2500.0	14.8	4.5
3000.0	16.4	5
4000.0	19.36	5.9
4500.0	21	6.4
5000.0	22.31	6.8
5200.0	22.97	7
5500.0	23.62	7.2
5800.0	24.28	7.4
6000.0	24.93	7.6

## Material Specifications

<b>Braid Material</b>	Tinned copper
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<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>	38.1 mm   1.5 in
<b>Tensile Strength</b>	159 kg   350.535 lb
<b>Bending Moment</b>	3.7 N-m   32.748 in lb
<b>Flat Plate Crush Strength</b>	1.1 kg/mm   61.597 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)

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	60 kg   132.277 lb

## Regulatory Compliance/Certifications

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

