

# CNT-240-300M

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CNT-240, 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-240

## General Specifications

<b>Braid Coverage</b>	90 %
<b>Cable Type</b>	CNT-240
<b>Jacket Color</b>	Black

## Dimensions

<b>Cable Length</b>	300 m   984.252 ft
<b>Reel Flange</b>	345 mm   13.583 in
<b>Reel Hub</b>	127 mm   5 in
<b>Reel Traverse</b>	200 mm   7.874 in
<b>Diameter Over Dielectric</b>	3.81 mm   0.15 in
<b>Diameter Over Jacket</b>	6.1 mm   0.24 in
<b>Diameter Over Tape</b>	3.987 mm   0.157 in
<b>Inner Conductor OD</b>	1.42 mm   0.056 in
<b>Outer Conductor OD</b>	4.52 mm   0.178 in
<b>Nominal Size</b>	0.240 in

## Electrical Specifications

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<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	79.8 pF/m   24.323 pF/ft
<b>dc Resistance, Inner Conductor</b>	11.1 ohms/km   3.383 ohms/kft
<b>dc Resistance, Outer Conductor</b>	12.76 ohms/km   3.889 ohms/kft
<b>dc Test Voltage</b>	2500 V
<b>Jacket Spark Test Voltage (rms)</b>	2500 V
<b>Maximum Frequency</b>	31 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	5.6 kW
<b>Shielding Effectiveness</b>	90 dB
<b>Velocity</b>	83 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30.0	4.9	1.5
50.0	6.2	1.9
150.0	10.2	3.1
220.0	12.5	3.8
450.0	17.4	5.3
900.0	24.9	7.6
1800.0	35.75	10.9
2500.0	42.31	12.9
3000.0	46.48	14.17
4000.0	53.92	16.44
4500.0	57.3	17.47
5000.0	60.51	18.45
5200.0	61.76	18.83
5500.0	63.6	19.39
5800.0	66.9	20.4
6000.0	73.82	22.5

## Material Specifications

<b>Braid Material</b>	Tinned copper
<b>Dielectric Material</b>	Foam PE

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<b>Jacket Material</b>	Non-halogenated PE
<b>Inner Conductor Material</b>	Copper
<b>Shield Tape Material</b>	Aluminum

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	19.05 mm   0.75 in
<b>Tensile Strength</b>	36 kg   79.366 lb
<b>Bending Moment</b>	0.3 N-m   2.655 in lb
<b>Flat Plate Crush Strength</b>	0.4 kg/mm   22.399 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>Cable weight</b>	0.05 kg/m   0.034 lb/ft
<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	16.2 kg   35.715 lb

## Regulatory Compliance/Certifications

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

