

# CNT-240-FR-300M

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CNT-240-FR, CNT® 50 Ohm Braided Coaxial Cable, 300 m, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant



## Product Classification

<b>Brand</b>	CNT®
<b>Product Series</b>	CNT-240
<b>Product Type</b>	Braided coaxial cable

## Standards And Qualifications

<b>EN50575 CPR Cable EuroClass</b>	Dca   s2   d2
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## Construction Materials

<b>Jacket Color</b>	Black
<b>Jacket Material</b>	Non-halogenated, fire retardant polyolefin
<b>Braid Material</b>	Tinned copper
<b>Shield Tape Material</b>	Aluminum
<b>Dielectric Material</b>	Foam PE
<b>Inner Conductor Material</b>	Copper

## Dimensions

<b>Cable Length</b>	300 m   984 ft
<b>Cable Weight</b>	0.05 kg/m
<b>Diameter Over Dielectric</b>	3.810 mm   0.150 in
<b>Diameter Over Jacket</b>	6.100 mm   0.240 in
<b>Diameter Over Tape</b>	3.988 mm   0.157 in
<b>Inner Conductor OD</b>	1.4200 mm   0.0559 in
<b>Nominal Size</b>	0.240 in
<b>Outer Conductor OD</b>	4.520 mm   0.178 in
<b>Reel Flange</b>	356.0 mm   14.0 in
<b>Reel Hub</b>	127.0 mm   5.0 in
<b>Reel Traverse</b>	210.0 mm   8.3 in
<b>Total Weight</b>	16.2 kg   35.7 lb

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## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	79.8 pF/m   24.4 pF/ft
<b>dc Resistance, Inner Conductor</b>	11.100 ohms/km   3.384 ohms/kft
<b>dc Resistance, Outer Conductor</b>	12.760 ohms/km   3.890 ohms/kft
<b>dc Test Voltage</b>	2500 V
<b>Jacket Spark Test Voltage (rms)</b>	2500 V
<b>Maximum Frequency</b>	31.00 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%

## Environmental Specifications

<b>Installation Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Operating Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Storage Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)

## General Specifications

<b>Cable Type</b>	CNT-240
<b>Braid Coverage</b>	90% braid
<b>Packaging Type</b>	Reel

## Mechanical Specifications

<b>Bending Moment</b>	0.3 N-m   0.3 ft lb
<b>Flat Plate Crush Strength</b>	0.4 kg/mm   20.0 lb/in
<b>Minimum Bend Radius, Single Bend</b>	19.10 mm   0.75 in
<b>Smoke Index Test Method</b>	IEC 61034
<b>Tensile Strength</b>	36 kg   80 lb
<b>Toxicity Index Test Method</b>	IEC 60754-2

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	4.90	1.50
50 MHz	6.20	1.90
150 MHz	10.20	3.10
220 MHz	12.50	3.80
450 MHz	17.40	5.30
900 MHz	24.90	7.60
1800 MHz	35.75	10.90

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2500 MHz	42.31	12.90
3000 MHz	46.48	14.17
4000 MHz	53.92	16.44
4500 MHz	57.30	17.47
5000 MHz	60.51	18.45
5200 MHz	61.76	18.83
5500 MHz	63.60	19.39
5800 MHz	66.90	20.40
6000 MHz	73.82	22.50

\* Values typical, guaranteed within 5%

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
China RoHS SJ/T 11364-2006  
ISO 9001:2015  
CENELEC

### Classification

Compliant  
Below Maximum Concentration Value (MCV)  
Designed, manufactured and/or distributed under this quality management system  
EN 50575 compliant, Declaration of Performance (DoP) available

