

# CNT-195-FR-300M

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CNT-195-FR, CNT® 50 Ohm Braided Coaxial Cable, 300 m, black non-halogenated, fire retardant polyolefin jacket



## Product Classification

<b>Brand</b>	CNT®
<b>Product Series</b>	CNT-195
<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>Diameter Over Dielectric</b>	2.790 mm   0.110 in
<b>Diameter Over Jacket</b>	4.950 mm   0.195 in
<b>Inner Conductor OD</b>	0.9400 mm   0.0370 in
<b>Nominal Size</b>	0.195 in
<b>Outer Conductor OD</b>	3.500 mm   0.138 in
<b>Reel Flange</b>	305.0 mm   12.0 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>	10.3 kg   22.7 lb

## Electrical Specifications

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<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	79.7 pF/m   24.3 pF/ft
<b>dc Resistance, Inner Conductor</b>	24.940 ohms/km   7.600 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.080 ohms/km   4.900 ohms/kft
<b>dc Test Voltage</b>	1500 V
<b>Jacket Spark Test Voltage (rms)</b>	3000 V
<b>Maximum Frequency</b>	37.90 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	2.5 kW
<b>Shielding Effectiveness</b>	>90 dB
<b>Velocity</b>	75%

## 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-195
<b>Braid Coverage</b>	89% braid
<b>Packaging Type</b>	Reel

## Mechanical Specifications

<b>Bending Moment</b>	0.3 N-m   0.2 ft lb
<b>Flat Plate Crush Strength</b>	0.3 kg/mm   15.0 lb/in
<b>Minimum Bend Radius, Single Bend</b>	12.70 mm   0.50 in
<b>Smoke Index Test Method</b>	IEC 61034
<b>Tensile Strength</b>	18 kg   40 lb
<b>Toxicity Index Test Method</b>	IEC 60754-2

## Electrical Performance

<b>Frequency</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30 MHz	6.56	2.00
50 MHz	8.53	2.60
150 MHz	14.43	4.40
220 MHz	17.71	5.40
450 MHz	25.58	7.80
900 MHz	36.41	11.10
1800 MHz	52.48	16.00
2500 MHz	62.32	19.00
3000 MHz	68.58	20.91

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4000 MHz	79.87	24.35
4500 MHz	85.05	25.93
5000 MHz	89.97	27.43
5200 MHz	91.87	28.01
5500 MHz	94.66	28.86
5800 MHz	97.42	29.70
6000 MHz	99.19	30.24

*\* 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

