

# CNT-195-FR

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CNT-195-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant



## Product Classification

<b>Product Type</b>	Braided coaxial cable
<b>Product Brand</b>	CNT®
<b>Product Series</b>	CNT-195

## General Specifications

<b>Braid Coverage</b>	89 %
<b>Cable Type</b>	CNT-195
<b>Jacket Color</b>	Black

## Dimensions

<b>Diameter Over Dielectric</b>	2.79 mm   0.11 in
<b>Diameter Over Jacket</b>	4.95 mm   0.195 in
<b>Inner Conductor OD</b>	0.94 mm   0.037 in
<b>Outer Conductor OD</b>	3.5 mm   0.138 in
<b>Nominal Size</b>	0.195 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	79.7 pF/m   24.293 pF/ft
<b>dc Resistance, Inner Conductor</b>	25.5 ohms/km   7.772 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.08 ohms/km   4.901 ohms/kft
<b>dc Test Voltage</b>	1500 V
<b>Jacket Spark Test Voltage (rms)</b>	3000 V
<b>Maximum Frequency</b>	37.9 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz

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<b>Peak Power</b>	2.5 kW
<b>Shielding Effectiveness</b>	90 dB
<b>Velocity</b>	75 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30.0	6.56	2
50.0	8.53	2.6
150.0	14.43	4.4
220.0	17.71	5.4
450.0	25.58	7.8
700.0	32.05	9.77
800.0	34.31	10.46
900.0	36.41	11.1
1500.0	47.79	14.57
1800.0	52.48	16
2100.0	56.84	17.33
2500.0	62.32	19
3000.0	68.58	20.91
4000.0	79.87	24.35
4500.0	85.05	25.93
5000.0	89.97	27.43
5200.0	91.87	28.01
5500.0	94.66	28.86
5800.0	97.42	29.7
6000.0	99.19	30.24

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	0.5 in   12.7 mm
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<b>Tensile Strength</b>	18 kg   39.683 lb
<b>Bending Moment</b>	0.3 N-m   2.655 in lb
<b>Flat Plate Crush Strength</b>	0.3 kg/mm   16.799 lb/in

## 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)
<b>EN50575 CPR Cable EuroClass</b>	Dca   d2   s2
<b>Smoke Index Test Method</b>	IEC 61034
<b>Toxicity Index Test Method</b>	IEC 60754-2

## Packaging and Weights

<b>Cable weight</b>	0.03 kg/m   0.217 lb/ft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant



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