

## CNT-195-FR

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



### Construction Materials

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

### Dimensions

Cable Weight	0.03 kg/m
Diameter Over Dielectric	2.790 mm   0.110 in
Diameter Over Jacket	4.950 mm   0.195 in
Inner Conductor OD	0.9400 mm   0.0370 in
Nominal Size	0.195 in
Outer Conductor OD	3.500 mm   0.138 in

### Electrical Specifications

Cable Impedance	50 ohm
Capacitance	79.7 pF/m   24.3 pF/ft
dc Resistance, Inner Conductor	25.500 ohms/km   7.780 ohms/kft
dc Resistance, Outer Conductor	16.080 ohms/km   4.900 ohms/kft
dc Test Voltage	1500 V
Jacket Spark Test Voltage (rms)	3000 V
Maximum Frequency	37.90 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	2.5 kW
Shielding Effectiveness	>90 dB
Velocity	75%

### Environmental Specifications

Installation Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)

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## General Specifications

Cable Type	CNT-195
Braid Coverage	89% braid
Brand	CNT®
Packaging Type	Reel

## Mechanical Specifications

Bending Moment	0.3 N-m   0.2 ft lb
Flat Plate Crush Strength	0.3 kg/mm   15.0 lb/in
Minimum Bend Radius, Single Bend	12.70 mm   0.50 in
Tensile Strength	18 kg   40 lb

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
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
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	Classification
RoHS 2011/65/EU	Compliant
China RoHS SJ/T 11364-2006	Below Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

