

## CNT-100

**CNT-100, CNT® 50 Ohm Braided Coaxial Cable, black PE jacket**



### Construction Materials

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

### Dimensions

Diameter Over Dielectric	1.550 mm   0.061 in
Diameter Over Jacket	2.790 mm   0.110 in
Inner Conductor OD	0.4600 mm   0.0181 in
Nominal Size	0.100 in
Outer Conductor OD	2.060 mm   0.081 in

### Electrical Specifications

Cable Impedance	50 ohm
Capacitance	102.0 pF/m   31.2 pF/ft
dc Resistance, Inner Conductor	105.000 ohms/km   32.000 ohms/kft
dc Resistance, Outer Conductor	28.200 ohms/km   8.600 ohms/kft
dc Test Voltage	500 V
Jacket Spark Test Voltage (rms)	1500 V
Maximum Frequency	61.00 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	0.6 kW
Shielding Effectiveness	>90 dB
Velocity	66%

### Environmental Specifications

Installation Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

### General Specifications

CNT-100

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Cable Type	CNT-100
Braid Coverage	93% braid
Brand	CNT®
Packaging Type	Reel

## Mechanical Specifications

Bending Moment	0.1 N-m   0.1 ft lb
Flat Plate Crush Strength	0.2 kg/mm   10.0 lb/in
Minimum Bend Radius, Single Bend	6.40 mm   0.25 in
Tensile Strength	7 kg   15 lb

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	12.80	3.90
50 MHz	16.40	5.00
150 MHz	27.60	8.40
220 MHz	33.50	10.20
450 MHz	48.20	14.70
900 MHz	70.20	21.40
1500 MHz	93.50	28.50
1800 MHz	103.60	31.60
2000 MHz	110.20	33.60
2500 MHz	125.30	38.20
3000 MHz	139.40	42.50
4000 MHz	171.70	52.35
4500 MHz	183.60	55.98
5000 MHz	195.10	59.48
5200 MHz	198.40	60.49
5500 MHz	206.00	62.81
5800 MHz	212.40	64.76
6000 MHz	216.60	66.04

\* 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)

