

CNT-300

CNT-300, CNT® 50 Ohm Braided Coaxial Cable, black PE jacket



Construction Materials

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

Dimensions

Cable Weight	0.06 kg/m
Diameter Over Dielectric	4.830 mm 0.190 in
Diameter Over Jacket	7.620 mm 0.300 in
Diameter Over Tape	5.004 mm 0.197 in
Inner Conductor OD	1.7800 mm 0.0700 in
Nominal Size	0.300 in
Outer Conductor OD	5.660 mm 0.223 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	80.4 pF/m 24.5 pF/ft
dc Resistance, Inner Conductor	6.960 ohms/km 2.120 ohms/kft
dc Resistance, Outer Conductor	8.500 ohms/km 2.591 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	3500 V
Maximum Frequency	24.50 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	10.0 kW
Shielding Effectiveness	>90 dB
Velocity	83%

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)

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General Specifications

Cable Type	CNT-300
Braid Coverage	87% braid
Brand	CNT®
Packaging Type	Reel

Mechanical Specifications

Bending Moment	0.5 N-m 0.4 ft lb
Flat Plate Crush Strength	0.5 kg/mm 30.0 lb/in
Minimum Bend Radius, Single Bend	22.20 mm 0.88 in
Tensile Strength	55 kg 120 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	3.80	1.16
50 MHz	4.90	1.50
150 MHz	7.90	2.40
220 MHz	9.50	2.90
450 MHz	13.10	4.00
900 MHz	19.40	5.90
1500 MHz	25.30	7.70
1800 MHz	28.20	8.60
2000 MHz	29.80	9.10
2500 MHz	33.80	10.30
3000 MHz	37.40	11.40
4000 MHz	44.61	13.60
4500 MHz	47.75	14.55
5000 MHz	50.52	15.40
5200 MHz	51.83	15.80
5500 MHz	53.14	16.20
5800 MHz	54.78	16.70
6000 MHz	55.80	17.00

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

