

CNT-240

CNT-240, 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

Cable Weight	0.03 kg/m
Diameter Over Dielectric	3.810 mm 0.150 in
Diameter Over Jacket	6.100 mm 0.240 in
Diameter Over Tape	3.988 mm 0.157 in
Inner Conductor OD	1.4200 mm 0.0559 in
Nominal Size	0.240 in
Outer Conductor OD	4.520 mm 0.178 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	79.8 pF/m 24.4 pF/ft
dc Resistance, Inner Conductor	11.100 ohms/km 3.384 ohms/kft
dc Resistance, Outer Conductor	12.760 ohms/km 3.890 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	2500 V
Maximum Frequency	31.00 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	5.6 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-240
Braid Coverage	90% braid
Brand	CNT®
Packaging Type	Reel

Mechanical Specifications

Bending Moment	0.3 N-m 0.3 ft lb
Flat Plate Crush Strength	0.4 kg/mm 20.0 lb/in
Minimum Bend Radius, Single Bend	19.10 mm 0.75 in
Tensile Strength	36 kg 80 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	4.90	1.50
50 MHz	6.20	1.90
150 MHz	10.20	3.10
220 MHz	12.50	3.80
450 MHz	17.40	5.30
900 MHz	24.90	7.60
1800 MHz	35.75	10.90
2500 MHz	42.31	12.90
3000 MHz	46.48	14.17
4000 MHz	53.92	16.44
4500 MHz	57.30	17.47
5000 MHz	60.51	18.45
5200 MHz	61.76	18.83
5500 MHz	63.60	19.39
5800 MHz	66.90	20.40
6000 MHz	73.82	22.50

* 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

