

Product Specifications

CNT-240

CNT-240, Cinta™ 50 Ohm Braided Coaxial Cable, black PE jacket



CHARACTERISTICS

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	0.06 kg/m
Diameter Over Dielectric	3.810 mm 0.150 in
Diameter Over Jacket	6.100 mm 0.240 in
Inner Conductor OD	1.420 mm 0.056 in
Nominal Size	0.240 in
Outer Conductor OD	4.520 mm 0.178 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	80 pF/m 24 pF/ft
dc Resistance, Inner Conductor	10.830 ohms/km 3.300 ohms/kft
dc Resistance, Outer Conductor	12.760 ohms/km 3.890 ohms/kft
dc Test Voltage	1500 V
Jacket Spark Test Voltage (rms)	5000 V
Maximum Frequency	31.00 GHz
Operating Frequency Band	30 – 6000 MHz

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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)

General Specifications

Cable Type	CNT-240
Braid Coverage	90% braid
Brand	Cinta™
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

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
1500 MHz	32.80	10.00
1800 MHz	36.40	11.10
2000 MHz	38.70	11.80
2400 MHz	42.98	13.10
2500 MHz	44.00	13.40
3000 MHz	48.90	14.90
4000 MHz	57.74	17.60
4500 MHz	62.01	18.90
5000 MHz	66.27	20.20
5200 MHz	67.91	20.70
5500 MHz	70.21	21.40
5800 MHz	72.51	22.10
6000 MHz	73.82	22.50

Regulatory Compliance/Certifications

Agency RoHS 2002/95/EC	Classification Compliant
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