

Product Specifications



CNT-400-500M

CNT-400, Cinta™ 50 Ohm Braided Coaxial Cable, 500 m, black PE jacket



CHARACTERISTICS

Construction Materials

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

Dimensions

Cable Length	500 m 1640 ft
Diameter Over Dielectric	0.285 in 7.240 mm
Diameter Over Jacket	0.405 in 10.290 mm
Inner Conductor OD	0.108 in 2.740 mm
Nominal Size	0.400 in
Outer Conductor OD	0.318 in 8.080 mm
Reel Flange	480.0 mm 18.9 in
Reel Hub	200.0 mm 7.9 in
Reel Traverse	520.0 mm 20.5 in
Total Weight	124.5 lb 56.6 kg

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	24 pF/ft 78 pF/m
dc Resistance, Inner Conductor	1.370 ohms/kft 4.490 ohms/km
dc Resistance, Outer Conductor	1.710 ohms/kft 5.610 ohms/km
dc Test Voltage	3000 V
Jacket Spark Test Voltage (rms)	8000 V
Maximum Frequency	16.20 GHz
Operating Frequency Band	30 – 6000 MHz

Product Specifications



Peak Power	16.0 kW
Shielding Effectiveness	>90 dB
Velocity	85%

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-400
Braid Coverage	86% braid
Packaging Type	Reel

Mechanical Specifications

Bending Moment	0.5 ft lb 0.7 N-m
Flat Plate Crush Strength	0.7 kg/mm 40.0 lb/in
Minimum Bend Radius, Single Bend	1.00 in 25.40 mm
Tensile Strength	73 kg 160 lb

Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	2.49	0.76
50 MHz	3.18	0.97
150 MHz	4.92	1.50
220 MHz	6.23	1.90
450 MHz	8.86	2.70
900 MHz	12.80	3.90
1500 MHz	16.70	5.10
1800 MHz	18.40	5.60
2000 MHz	19.40	5.90
2400 MHz	21.65	6.60
2500 MHz	22.00	6.70
3000 MHz	24.60	7.50
4000 MHz	28.87	8.80
4500 MHz	30.84	9.40
5000 MHz	32.81	10.00
5200 MHz	33.46	10.20
5500 MHz	34.78	10.60
5800 MHz	35.76	10.90
6000 MHz	36.42	11.10

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant

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