

CNT-600-500M

CNT-600, CNT® 50 Ohm Braided Coaxial Cable, 500 m, 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-clad aluminum wire

Dimensions

Cable Length	500 m 1640 ft
Diameter Over Dielectric	11.560 mm 0.455 in
Diameter Over Jacket	14.990 mm 0.590 in
Inner Conductor OD	4.4700 mm 0.1760 in
Nominal Size	0.600 in
Outer Conductor OD	12.500 mm 0.492 in
Reel Flange	550.0 mm 21.7 in
Reel Hub	254.0 mm 10.0 in
Reel Traverse	675.0 mm 26.6 in
Total Weight	100.0 kg 220.5 lb

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	76.0 pF/m 23.2 pF/ft
dc Resistance, Inner Conductor	1.740 ohms/km 0.530 ohms/kft
dc Resistance, Outer Conductor	3.940 ohms/km 1.200 ohms/kft
dc Test Voltage	4600 V
Jacket Spark Test Voltage (rms)	8000 V
Maximum Frequency	10.20 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	40.0 kW
Shielding Effectiveness	>90 dB
Velocity	87%

Environmental Specifications

Installation Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
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CNT-600-500M

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-600
Braid Coverage	90% braid
Brand	CNT®
Packaging Type	Reel

Mechanical Specifications

Bending Moment	3.7 N-m 2.8 ft lb
Flat Plate Crush Strength	1.1 kg/mm 60.0 lb/in
Minimum Bend Radius, Single Bend	38.10 mm 1.50 in
Tensile Strength	159 kg 350 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	1.60	0.49
50 MHz	1.97	0.60
150 MHz	3.20	0.97
220 MHz	3.80	1.17
450 MHz	5.60	1.71
900 MHz	8.20	2.50
1500 MHz	10.80	3.30
1800 MHz	12.10	3.70
2000 MHz	12.80	3.90
2400 MHz	14.44	4.40
2500 MHz	14.80	4.50
3000 MHz	16.40	5.00
4000 MHz	19.36	5.90
4500 MHz	21.00	6.40
5000 MHz	22.31	6.80
5200 MHz	22.97	7.00
5500 MHz	23.62	7.20
5800 MHz	24.28	7.40
6000 MHz	24.93	7.60

* 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

