

CNT-600-FR-500M

CNT-600-FR, CNT® 50 Ohm Braided Coaxial Cable, 500 m, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant



Product Classification

Brand	CNT®
Product Series	CNT-600
Product Type	Braided coaxial cable

Standards And Qualifications

EN50575 CPR Cable EuroClass	Dca s2 d2
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Construction Materials

Jacket Color	Black
Jacket Material	Non-halogenated, fire retardant polyolefin
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	635.0 mm 25.0 in
Reel Hub	254.0 mm 10.0 in
Reel Traverse	533.0 mm 21.0 in
Total Weight	99.5 kg 219.4 lb

Electrical Specifications

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Cable Impedance	50 ohm
Capacitance	76.0 pF/m 23.2 pF/ft
dc Resistance, Inner Conductor	1.740 ohms/km
dc Resistance, Outer Conductor	3.940 ohms/km
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, minimum	90 dB
Velocity	87 %

Environmental Specifications

Installation Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)

General Specifications

Cable Type	CNT-600
Braid Coverage	90 %
Packaging Type	Reel

Mechanical Specifications

Bending Moment	3.7 N-m 2.8 ft lb
Flat Plate Crush Strength	1.1 kg/mm
Minimum Bend Radius, Single Bend	38.10 mm 1.50 in
Smoke Index Test Method	IEC 61034
Tensile Strength	159 kg 350 lb
Toxicity Index Test Method	IEC 60754-2

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

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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

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

CENELEC

Classification

Compliant

Designed, manufactured and/or distributed under this quality management system

Below Maximum Concentration Value (MCV)

EN 50575 compliant, Declaration of Performance (DoP) available



CENELEC