CNT-600-FR, CNT® 50 Ohm Braided Coaxial Cable, 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

Construction Materials

Jacket Color Black

Jacket Material Non-halogenated, fire retardant polyolefin

Braid MaterialTinned copperShield Tape MaterialAluminumDielectric MaterialFoam PE

Inner Conductor Material Copper-clad aluminum wire

Dimensions

Cable Weight 0.13 kg/m

 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

Electrical Specifications

Cable Impedance 50 ohm

Capacitance 76.0 pF/m | 23.2 pF/ft

dc Resistance, Inner Conductor1.740 ohms/kmdc Resistance, Outer Conductor3.940 ohms/km

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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 TypeCNT-600Braid Coverage90 %Packaging TypeReel

Mechanical Specifications

Bending Moment3.7 N-m | 2.7 ft lbFire Retardancy Test MethodUL VW1/CATVXFlat Plate Crush Strength1.1 kg/mm

Minimum Bend Radius, Single Bend 38.10 mm | 1.50 in

Smoke Index Test MethodIEC 61034Tensile Strength159 kg | 351 lbToxicity Index Test MethodIEC 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
2400 MHz	14.44	4.40
2500 MHz	14.80	4.50
3000 MHz	16.40	5.00
4000 MHz	19.36	5.90

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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









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