

CNT-195-FR

CNT-195-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-195
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

Dimensions

Cable Weight	0.03 kg/m
Diameter Over Dielectric	2.790 mm 0.110 in
Diameter Over Jacket	4.950 mm 0.195 in
Inner Conductor OD	0.9400 mm 0.0370 in
Nominal Size	0.195 in
Outer Conductor OD	3.500 mm 0.138 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	79.7 pF/m 24.3 pF/ft
dc Resistance, Inner Conductor	25.500 ohms/km 7.780 ohms/kft
dc Resistance, Outer Conductor	16.080 ohms/km 4.900 ohms/kft

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dc Test Voltage	1500 V
Jacket Spark Test Voltage (rms)	3000 V
Maximum Frequency	37.90 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	2.5 kW
Shielding Effectiveness, minimum	90 dB
Velocity	75 %

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-195
Braid Coverage	89 %
Packaging Type	Reel

Mechanical Specifications

Bending Moment	0.3 N-m 0.2 ft lb
Flat Plate Crush Strength	0.3 kg/mm 15.0 lb/in
Minimum Bend Radius, Single Bend	12.70 mm 0.50 in
Smoke Index Test Method	IEC 61034
Tensile Strength	18 kg 40 lb
Toxicity Index Test Method	IEC 60754-2

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	6.56	2.00
50 MHz	8.53	2.60
150 MHz	14.43	4.40
220 MHz	17.71	5.40
450 MHz	25.58	7.80
700 MHz	32.05	9.77
800 MHz	34.31	10.46
900 MHz	36.41	11.10
1500 MHz	47.79	14.57
1800 MHz	52.48	16.00
2100 MHz	56.84	17.33
2500 MHz	62.32	19.00
3000 MHz	68.58	20.91
4000 MHz	79.87	24.35

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4500 MHz	85.05	25.93
5000 MHz	89.97	27.43
5200 MHz	91.87	28.01
5500 MHz	94.66	28.86
5800 MHz	97.42	29.70
6000 MHz	99.19	30.24

* 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
Above Maximum Concentration Value (MCV)
EN 50575 compliant, Declaration of Performance (DoP) available

