CNT-100-FR

CNT-100-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket

OBSOLETE

Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	CNT-100

General Specifications

Braid Coverage	93 %
Cable Type	CNT-100
Jacket Color	Black

Dimensions

Diameter Over Dielectric	1.55 mm | 0.061 in
Diameter Over Jacket	2.79 mm | 0.11 in
Inner Conductor OD	0.46 mm | 0.018 in
Outer Conductor OD	2.06 mm | 0.081 in
Nominal Size	0.100 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	102 pF/m | 31.09 pF/ft
dc Resistance, Inner Conductor	105 ohms/km | 32.004 ohms/kft
dc Resistance, Outer Conductor	28.2 ohms/km | 8.595 ohms/kft
dc Test Voltage	500 V

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Jacket Spark Test Voltage (rms)	1500 V
Maximum Frequency	61 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	0.6 kW
Shielding Effectiveness	90 dB
Velocity	66 %

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30.0	12.8	3.9
50.0	16.4	5
150.0	27.6	8.4
220.0	33.5	10.2
450.0	48.2	14.7
900.0	70.2	21.4
1500.0	93.5	28.5
1800.0	103.6	31.6
2000.0	110.2	33.6
2500.0	125.3	38.2
3000.0	139.4	42.5
4000.0	171.7	52.35
4500.0	183.6	55.98
5000.0	195.1	59.48
5200.0	198.4	60.49
5500.0	206	62.81
5800.0	212.4	64.76
6000.0	216.6	66.04

Material Specifications

Braid Material	Tinned copper
Dielectric Material	Foam PE
Jacket Material	Non-halogenated, fire retardant polyolefin
Inner Conductor Material	Copper
Shield Tape Material	Aluminum

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Mechanical Specifications

Minimum Bend Radius, single Bend	6.35 mm | 0.25 in
Tensile Strength	7 kg | 15.432 lb
Bending Moment	0.1 N-m | 0.885 in lb
Flat Plate Crush Strength	0.2 kg/mm | 11.199 lb/in

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)

Packaging and Weights

Cable weight	0.02 kg/m | 0.013 lb/ft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant

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