

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



OBSOLETE

Product Classification

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

General Specifications

Braid Coverage	90 %
Cable Type	CNT-600
Jacket Color	Black

Dimensions

Cable Length	500 m 1,640.42 ft
Reel Flange	635 mm 25 in
Reel Hub	254 mm 10 in
Reel Traverse	533 mm 20.984 in
Diameter Over Dielectric	11.56 mm 0.455 in
Diameter Over Jacket	14.99 mm 0.59 in
Inner Conductor OD	4.47 mm 0.176 in
Outer Conductor OD	12.5 mm 0.492 in
Nominal Size	0.600 in

Electrical Specifications

Cable Impedance	50 ohm
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Capacitance	76 pF/m 23.165 pF/ft
dc Resistance, Inner Conductor	1.74 ohms/km 0.53 ohms/kft
dc Resistance, Outer Conductor	3.94 ohms/km 1.201 ohms/kft
dc Test Voltage	4600 V
Jacket Spark Test Voltage (rms)	8000 V
Maximum Frequency	10.2 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	40 kW
Shielding Effectiveness	90 dB
Velocity	87 %

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30.0	1.6	0.49
50.0	1.97	0.6
150.0	3.2	0.97
220.0	3.8	1.17
450.0	5.6	1.71
900.0	8.2	2.5
1500.0	10.8	3.3
1800.0	12.1	3.7
2000.0	12.8	3.9
2400.0	14.44	4.4
2500.0	14.8	4.5
3000.0	16.4	5
4000.0	19.36	5.9
4500.0	21	6.4
5000.0	22.31	6.8
5200.0	22.97	7
5500.0	23.62	7.2
5800.0	24.28	7.4
6000.0	24.93	7.6

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, single Bend	38.1 mm 1.5 in
Tensile Strength	159 kg 350.535 lb
Bending Moment	3.7 N-m 32.748 in lb
Flat Plate Crush Strength	1.1 kg/mm 61.597 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)
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d2
Smoke Index Test Method	IEC 61034
Toxicity Index Test Method	IEC 60754-2

Packaging and Weights

Packaging Type	Reel
Weight, gross	99.5 kg 219.36 lb

Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant

