

CNT-400-DB

CNT-400-DB, CNT® 50 Ohm Braided Coaxial Cable, flooded, black PE jacket



OBSOLETE

Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	CNT-400

General Specifications

Braid Coverage	86 %
Cable Type	CNT-400
Jacket Color	Black

Dimensions

Diameter Over Dielectric	7.24 mm 0.285 in
Diameter Over Jacket	10.29 mm 0.405 in
Diameter Over Tape	7.391 mm 0.291 in
Inner Conductor OD	2.74 mm 0.108 in
Outer Conductor OD	8.08 mm 0.318 in
Nominal Size	0.400 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	78 pF/m 23.774 pF/ft
dc Resistance, Inner Conductor	4.49 ohms/km 1.369 ohms/kft
dc Resistance, Outer Conductor	5.61 ohms/km 1.71 ohms/kft

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dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	4000 V
Maximum Frequency	16.2 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	16 kW
Shielding Effectiveness	90 dB
Velocity	85 %

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30.0	2.49	0.76
50.0	3.18	0.97
150.0	4.92	1.5
220.0	6.23	1.9
450.0	8.86	2.7
900.0	12.8	3.9
1500.0	16.7	5.1
1800.0	18.4	5.6
2000.0	19.4	5.9
2400.0	21.65	6.6
2500.0	22	6.7
3000.0	24.6	7.5
4000.0	28.87	8.8
4500.0	30.84	9.4
5000.0	32.81	10
5200.0	33.46	10.2
5500.0	34.78	10.6
5800.0	35.76	10.9
6000.0	36.42	11.1

Material Specifications

Braid Material	Tinned copper
Dielectric Material	Foam PE
Jacket Material	PE
Inner Conductor Material	Copper-clad aluminum wire

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Shield Tape Material Aluminum

Mechanical Specifications

Minimum Bend Radius, single Bend 25.4 mm | 1 in
Tensile Strength 73 kg | 160.937 lb
Bending Moment 0.7 N-m | 6.196 in lb
Flat Plate Crush Strength 0.7 kg/mm | 39.198 lb/in

Environmental Specifications

Installation temperature -40 °C to +85 °C (-40 °F to +185 °F)
Operating Temperature -40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature -70 °C to +85 °C (-94 °F to +185 °F)
Corrosion Protection Flooding compound
Water Jetting Test Method GR-421-CORE, Section 4.3.5.1

Packaging and Weights

Cable weight 0.07 kg/m | 0.047 lb/ft
Packaging Type Reel

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

