Product Specifications





CNT-400

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

Product Classification

Brand CNT®
Product Series CNT-400

Product Type Braided coaxial cable

Construction Materials

Jacket Color Black

Jacket Material Non-halogenated PE
Braid Material Tinned copper
Shield Tape Material Aluminum
Dielectric Material Foam PE

Inner Conductor Material Copper-clad aluminum wire

Dimensions

Cable Weight 0.10 kg/m

Diameter Over Dielectric7.240 mm | 0.285 inDiameter Over Jacket10.290 mm | 0.405 inDiameter Over Tape7.391 mm | 0.291 inInner Conductor OD2.7400 mm | 0.1079 in

Nominal Size 0.400 in

Outer Conductor OD 8.080 mm | 0.318 in

Electrical Specifications

Cable Impedance 50 ohm

Capacitance 78.0 pF/m | 24.0 pF/ft

dc Resistance, Inner Conductor 4.690 ohms/km | 1.430 ohms/kft dc Resistance, Outer Conductor 5.610 ohms/km | 1.710 ohms/kft

dc Test Voltage 2500 V

Jacket Spark Test Voltage (rms) 4000 V
Maximum Frequency 16.20 GHz
Operating Frequency Band 30 – 6000 MHz
Peak Power 16.0 kW

Shielding Effectiveness >90 dB
Velocity 85%

Product Specifications



CNT-400

Environmental Specifications

Installation Temperature $-40 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-40 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)
Operating Temperature $-40 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-40 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)
Storage Temperature $-70 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-94 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)

General Specifications

Cable Type CNT-400
Braid Coverage 90% braid
Brand CNT®

Mechanical Specifications

Bending Moment 0.7 N-m | 0.5 ft lb

Flat Plate Crush Strength 0.7 kg/mm | 40.0 lb/in

Minimum Bend Radius, Single Bend 25.40 mm | 1.00 in

Tensile Strength 73 kg | 160 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	
30 MHz	2.49	0.76	
50 MHz	3.18	0.97	
150 MHz	4.92	1.50	
220 MHz	6.23	1.90	
450 MHz	8.86	2.70	
900 MHz	12.80	3.90	
1500 MHz	16.70	5.10	
1800 MHz	18.40	5.60	
2000 MHz	19.40	5.90	
2400 MHz	21.65	6.60	
2500 MHz	22.00	6.70	
3000 MHz	24.60	7.50	
4000 MHz	28.87	8.80	
4500 MHz	30.84	9.40	
5000 MHz	32.81	10.00	
5200 MHz	33.46	10.20	
5500 MHz	34.78	10.60	
5800 MHz	35.76	10.90	
6000 MHz	36.42	11.10	

Regulatory Compliance/Certifications

AgencyRoHS 2011/65/EU

Classification
Compliant

China RoHS SJ/T 11364-2006 Below Maximum Concentration Value (MCV)

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system



