

Cable Specifications



CNT-400 Cinta™ Braided Cable

Description	Material	
CNT-400	Standard Outdoor Cable	Polyethylene
CNT-400-DB	Watertight Cable	Polyethylene
CNT-400-FR	Fire Retardant (CATVR)	Non-Halogenated

Mechanical	Value	
Minimum Bend Radius, in (mm)	1.0	25.4
Bending Moment lb-ft, (N-m)	0.5	0.68
Cable Weight, lb/ft (kg/m)	0.068	0.1
Tensile Strength, lb (kg)	160	72.6
Flat Plate Crush Strength, lb/in (kg/mm)	40	0.71

Construction	Material		
Inner Conductor	Solid BCCA1	0.108 in	2.74 mm
Dielectric	Foam Polyethylene	0.285 in	7.24 mm
Outer Conductor	Aluminum Tape	0.291 in	7.39 mm
Overall Braid	Tinned Copper	0.320 in	8.13 mm
Diameter over Jacket	Black Polyethylene	0.405 in	10.29 mm

Environmental	Value	
Storage temperature, °C (°F)	-70 to +85 (-94 to +185)	
Installation temperature, °C (°F)	-40 to + 85 (-40 to +185)	
Operating temperature, °C (°F)	-40 to +85 (-40 to +185)	

Electrical	Value	
Maximum Frequency	16.2 GHz	
Velocity, percent	85	
Voltage Withstand	2500 VDC	
Peak Power	16 kW	
DC Resistance, ohms/1000 ft (1000 m)		
Inner Conductor, ohms	1.39 (4.56)	
Outer Conductor, ohms	1.65 (5.41)	
Jacket Spark	8000 VRMS	
Capacitance	23.9 pF/ft (78.40 pF/m)	
Inductance	0.060 uH/ft (0.20 uH/m)	
Shielding Effectiveness	>90 dB	
Phase Stability	< 10 ppm/°C	

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Electrical Cont.

Frequency MHz	Attenuation dB/100 ft	Attenuation dB/100 m	Ave. Power kW
30	0.7	2.2	3.30
50	0.9	2.9	2.60
150	1.5	5.0	1.50
220	1.9	6.0	1.20
450	2.7	8.8	0.83
900	3.9	12.7	0.58
1500	5.0	16.6	0.44
1800	5.6	18.4	0.40
2000	5.9	19.4	0.37
2500	6.7	22.0	0.33

Attenuation: VSWR 1.0, ambient temperature 20°C (68°F)

Average Power: VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F),
sea level, dry air, atmospheric pressure, no solar loading
