

Cable Specifications



CNT-195 Cinta™ Cable

Description	Material	
CNT-195	Standard Outdoor Cable	Polyethylene
CNT-195-DB	Watertight Cable	Polyethylene

Mechanical	Value	
Minimum Bend Radius, in (mm)	0.5	12.7
Bending Moment lb-ft, (N-m)	0.2	0.27
Cable Weight, lb/ft (kg/m)	0.021	0.03
Tensile Strength, lb (kg)	40	18.2
Flat Plate Crush Strength, lb/in (kg/mm)	15	0.27

Construction	Material		
Inner Conductor	Solid BC	0.037 in	0.94 mm
Dielectric	Foam Polyethylene	0.113 in	2.87 mm
Outer Conductor	Aluminum Tape	0.118 in	3.00 mm
Overall Braid	Tinned Copper	0.141 in	3.58 mm
Diameter over Jacket	Black Polyethylene	0.195 in	4.95 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	41 GHz
Velocity, percent	80
Voltage Withstand	1000 VDC
Peak Power	2.5 kW
DC Resistance, ohms/1000 ft (1000 m)	
Inner Conductor, ohms	7.6 (29.94)
Outer Conductor, ohms	4.9 (16.08)
Jacket Spark	3000 VRMS
Capacitance	24.3 pF/ft (79.70 pF/m)
Inductance	0.064 uH/ft (0.21 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	1.9	6.1	0.85
50	2.5	8.0	0.66
150	4.3	13.9	0.38
220	5.1	16.9	0.31
450	7.4	24.4	0.21
900	10.6	34.7	0.15
1500	13.8	45.1	0.11
1800	15.1	49.6	0.10
2000	15.9	52.5	0.10
2500	17.9	58.9	0.09

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
