

Cable Specifications



CNT-500 Cinta™ Cable

| Description | Material | |
|-------------|------------------------|-----------------|
| CNT-500 | Standard Outdoor Cable | Polyethylene |
| CNT-500-DB | Watertight Cable | Polyethylene |
| CNT-500-FR | Fire Retardant (CATVR) | Non-Halogenated |

| Mechanical | Value | |
|--|-------|------|
| Minimum Bend Radius, in (mm) | 1.3 | 31.8 |
| Bending Moment lb-ft, (N-m) | 1.75 | 2.37 |
| Cable Weight, lb/ft (kg/m) | 0.097 | 0.14 |
| Tensile Strength, lb (kg) | 260 | 118 |
| Flat Plate Crush Strength, lb/in (kg/mm) | 50 | 0.89 |

| Construction | Material | | |
|----------------------|--------------------|----------|----------|
| Inner Conductor | Solid BCCA1 | 0.142 in | 3.61 mm |
| Dielectric | Foam Polyethylene | 0.370 in | 9.40 mm |
| Outer Conductor | Aluminum Tape | 0.376 in | 9.55 mm |
| Overall Braid | Tinned Copper | 0.405 in | 10.29 mm |
| Diameter over Jacket | Black Polyethylene | 0.500 in | 12.70 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 | 12.6 GHz | |
| Velocity, percent | 86 | |
| Voltage Withstand | 3000 VDC | |
| Peak Power | 22 kW | |
| DC Resistance, ohms/1000 ft (1000 m) | | |
| Inner Conductor, ohms | 0.82 (2.69) | |
| Outer Conductor, ohms | 1.27 (4.17) | |
| Jacket Spark | 8000 VRMS | |
| Capacitance | 23.6 pF/ft (77.40 pF/m) | |
| Inductance | 0.059 uH/ft (0.19 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 MHz | 0.53 | 1.8 | 4.4 |
| 50 MHz | 0.69 | 2.3 | 3.4 |
| 150 MHz | 1.2 | 4.0 | 1.9 |
| 220 MHz | 1.5 | 4.9 | 1.6 |
| 450 MHz | 2.2 | 7.0 | 1.09 |
| 900 MHz | 3.1 | 10.2 | 0.75 |
| 1500 MHz | 4.1 | 13.5 | 0.57 |
| 1800 MHz | 4.6 | 14.9 | 0.52 |
| 2000 MHz | 4.8 | 15.7 | 0.49 |
| 2500 MHz | 5.4 | 17.8 | 0.43 |

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
