

# CNT-400

---

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



## Product Classification

|                       |                       |
|-----------------------|-----------------------|
| <b>Product Type</b>   | Braided coaxial cable |
| <b>Product Brand</b>  | CNT®                  |
| <b>Product Series</b> | CNT-400               |

## General Specifications

|                       |         |
|-----------------------|---------|
| <b>Braid Coverage</b> | 90 %    |
| <b>Cable Type</b>     | CNT-400 |
| <b>Jacket Color</b>   | Black   |

## Dimensions

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

## Electrical Specifications

|  |                              |
|--|------------------------------|
| <b>Cable Impedance</b>                 | 50 ohm                       |
| <b>Capacitance</b>                     | 78 pF/m   23.774 pF/ft       |
| <b>dc Resistance, Inner Conductor</b>  | 4.69 ohms/km   1.43 ohms/kft |
| <b>dc Resistance, Outer Conductor</b>  | 5.61 ohms/km   1.71 ohms/kft |
| <b>dc Test Voltage</b>                 | 2500 V                       |
| <b>Jacket Spark Test Voltage (rms)</b> | 4000 V                       |

# CNT-400

---

|                                 |               |
|---------------------------------|---------------|
| <b>Maximum Frequency</b>        | 16.2 GHz      |
| <b>Operating Frequency Band</b> | 30 – 6000 MHz |
| <b>Peak Power</b>               | 16 kW         |
| <b>Shielding Effectiveness</b>  | 90 dB         |
| <b>Velocity</b>                 | 85 %          |

## Attenuation

| <b>Frequency (MHz)</b> | <b>Attenuation (dB/100 m)</b> | <b>Attenuation (dB/100 ft)</b> |
|------------------------|-------------------------------|--------------------------------|
| 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

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Braid Material</b>           | Tinned copper             |
| <b>Dielectric Material</b>      | Foam PE                   |
| <b>Jacket Material</b>          | Non-halogenated PE        |
| <b>Inner Conductor Material</b> | Copper-clad aluminum wire |
| <b>Shield Tape Material</b>     | Aluminum                  |

# CNT-400

---

## Mechanical Specifications

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

## Environmental Specifications

|                                 |                                      |
|---------------------------------|--------------------------------------|
| <b>Installation temperature</b> | -40 °C to +85 °C (-40 °F to +185 °F) |
| <b>Operating Temperature</b>    | -40 °C to +85 °C (-40 °F to +185 °F) |
| <b>Storage Temperature</b>      | -70 °C to +85 °C (-94 °F to +185 °F) |

## Packaging and Weights

|                     |                        |
|---------------------|------------------------|
| <b>Cable weight</b> | 0.1 kg/m   0.067 lb/ft |
|---------------------|------------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CHINA-ROHS    | Below maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system   |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |

