

Product Specifications

CNT-400

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



CHARACTERISTICS

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 Dielectric | 7.240 mm 0.285 in |
| Diameter Over Jacket | 10.290 mm 0.405 in |
| Inner Conductor OD | 2.740 mm 0.108 in |
| Nominal Size | 0.400 in |
| Outer Conductor OD | 8.080 mm 0.318 in |

Electrical Specifications

| | |
|---------------------------------|--------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 78 pF/m 24 pF/ft |
| dc Resistance, Inner Conductor | 4.490 ohms/km 1.370 ohms/kft |
| dc Resistance, Outer Conductor | 5.610 ohms/km 1.710 ohms/kft |
| dc Test Voltage | 2500 V |
| Jacket Spark Test Voltage (rms) | 8000 V |
| Maximum Frequency | 16.20 GHz |
| Operating Frequency Band | 30 – 6000 MHz |

Product Specifications



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| | |
|-------------------------|---------|
| Peak Power | 16.0 kW |
| Shielding Effectiveness | >90 dB |
| Velocity | 85% |

Environmental Specifications

| | |
|--------------------------|---------------------------------------|
| Installation Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Storage Temperature | -70 °C to +85 °C (-94 °F to +185 °F) |

General Specifications

| | |
|----------------|-----------|
| Cable Type | CNT-400 |
| Braid Coverage | 86% braid |
| Brand | Cinta™ |

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 |

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

| | |
|----------------------------------|------------------------------------|
| Agency RoHS 2002/95/EC | Classification Compliant |
|----------------------------------|------------------------------------|

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