

CNT-400-FR

CNT-400-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant



Product Classification

| | |
|-----------------------|-----------------------|
| Product Type | Braided coaxial cable |
| Product Brand | CNT® |
| Product Series | CNT-400 |

General Specifications

| | |
|-----------------------|---------|
| Braid Coverage | 90 % |
| Cable Type | CNT-400 |
| Jacket Color | Black |

Dimensions

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

Electrical Specifications

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|--|-------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 78 pF/m 23.774 pF/ft |
| dc Resistance, Inner Conductor | 4.49 ohms/km 1.369 ohms/kft |
| dc Resistance, Outer Conductor | 5.61 ohms/km 1.71 ohms/kft |
| dc Test Voltage | 2500 V |
| Jacket Spark Test Voltage (rms) | 4000 V |

CNT-400-FR

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

Attenuation

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

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|---------------------------------|--|
| Braid Material | Tinned copper |
| Dielectric Material | Foam PE |
| Jacket Material | Non-halogenated, fire retardant polyolefin |
| Inner Conductor Material | Copper-clad aluminum wire |
| Shield Tape Material | Aluminum |

CNT-400-FR

Mechanical Specifications

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

Environmental Specifications

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|---|--------------------------------------|
| Installation temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| EN50575 CPR Cable EuroClass Fire Performance | Dca |
| EN50575 CPR Cable EuroClass Smoke Rating | s2 |
| EN50575 CPR Cable EuroClass Droplets Rating | d2 |
| Fire Retardancy Test Method | UL VW1/CATVX |
| Smoke Index Test Method | IEC 61034 |
| Toxicity Index Test Method | IEC 60754-2 |

Packaging and Weights

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|-----------------------|-------------------------|
| Cable weight | 0.07 kg/m 0.047 lb/ft |
| Packaging Type | Reel |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |
| 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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |

