

CNT-300A-FR

CNT-300-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-300 |

General Specifications

| | |
|-----------------------|---------|
| Braid Coverage | 87 % |
| Cable Type | CNT-300 |
| Jacket Color | Black |

Dimensions

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|---------------------------------|---------------------|
| Diameter Over Dielectric | 4.83 mm 0.19 in |
| Diameter Over Jacket | 7.62 mm 0.3 in |
| Diameter Over Tape | 5.003 mm 0.197 in |
| Inner Conductor OD | 1.78 mm 0.07 in |
| Outer Conductor OD | 5.66 mm 0.223 in |
| Nominal Size | 0.300 in |

Electrical Specifications

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|--|--------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 80.4 pF/m 24.506 pF/ft |
| dc Resistance, Inner Conductor | 11.05 ohms/km 3.368 ohms/kft |
| dc Resistance, Outer Conductor | 8.5 ohms/km 2.591 ohms/kft |
| dc Test Voltage | 2500 V |
| Jacket Spark Test Voltage (rms) | 3500 V |

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|---------------------------------|---------------|
| Maximum Frequency | 24.5 GHz |
| Operating Frequency Band | 30 – 6000 MHz |
| Peak Power | 10 kW |
| Shielding Effectiveness | 90 dB |
| Velocity | 83 % |

Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|------------------------|-------------------------------|--------------------------------|
| 30.0 | 3.8 | 1.16 |
| 50.0 | 4.9 | 1.5 |
| 150.0 | 7.9 | 2.4 |
| 220.0 | 9.5 | 2.9 |
| 450.0 | 13.1 | 4 |
| 900.0 | 19.4 | 5.9 |
| 1500.0 | 25.3 | 7.7 |
| 1800.0 | 28.2 | 8.6 |
| 2000.0 | 29.8 | 9.1 |
| 2500.0 | 33.8 | 10.3 |
| 3000.0 | 37.4 | 11.4 |
| 3500.0 | 41.5 | 12.65 |
| 4000.0 | 44.61 | 13.6 |
| 4500.0 | 47.75 | 14.55 |
| 5000.0 | 50.52 | 15.4 |
| 5200.0 | 51.83 | 15.8 |
| 5500.0 | 53.14 | 16.2 |
| 5800.0 | 54.78 | 16.7 |
| 6000.0 | 55.8 | 17 |

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 |

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Mechanical Specifications

| | |
|---|--------------------------|
| Minimum Bend Radius, single Bend | 22.352 mm 0.88 in |
| Tensile Strength | 23 kg 50.706 lb |
| Bending Moment | 0.5 N-m 4.425 in lb |
| Flat Plate Crush Strength | 0.5 kg/mm 27.999 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 |
| 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 |
| UK-ROHS | Compliant |

