

CNT-240-FR-150M

CNT-240-FR, CNT® 50 Ohm Braided Coaxial Cable, 150 m, black non-halogenated, fire retardant polyolefin jacket



Product Classification

| | |
|-----------------------|-----------------------|
| Brand | CNT® |
| Product Series | CNT-240 |
| Product Type | Braided coaxial cable |

Standards And Qualifications

| | |
|------------------------------------|---------------|
| EN50575 CPR Cable EuroClass | Dca s2 d2 |
|------------------------------------|---------------|

Construction Materials

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

Dimensions

| | |
|---------------------------------|-----------------------|
| Cable Length | 150 m 492 ft |
| Cable Weight | 0.05 kg/m |
| Diameter Over Dielectric | 3.810 mm 0.150 in |
| Diameter Over Jacket | 6.100 mm 0.240 in |
| Diameter Over Tape | 3.988 mm 0.157 in |
| Inner Conductor OD | 1.4200 mm 0.0559 in |
| Nominal Size | 0.240 in |
| Outer Conductor OD | 4.520 mm 0.178 in |
| Reel Flange | 280.0 mm 11.0 in |
| Reel Hub | 127.0 mm 5.0 in |
| Reel Traverse | 210.0 mm 8.3 in |
| Total Weight | 8.6 kg 19.0 lb |

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Electrical Specifications

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|--|---------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 79.8 pF/m 24.4 pF/ft |
| dc Resistance, Inner Conductor | 11.100 ohms/km 3.384 ohms/kft |
| dc Resistance, Outer Conductor | 12.760 ohms/km 3.890 ohms/kft |
| dc Test Voltage | 2500 V |
| Jacket Spark Test Voltage (rms) | 2500 V |
| Maximum Frequency | 31.00 GHz |
| Operating Frequency Band | 30 – 6000 MHz |
| Peak Power | 5.6 kW |
| Shielding Effectiveness | >90 dB |
| Velocity | 83% |

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) |

General Specifications

| | |
|-----------------------|-----------|
| Cable Type | CNT-240 |
| Braid Coverage | 90% braid |
| Packaging Type | Reel |

Mechanical Specifications

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|---|------------------------|
| Bending Moment | 0.3 N-m 0.3 ft lb |
| Flat Plate Crush Strength | 0.4 kg/mm 20.0 lb/in |
| Minimum Bend Radius, Single Bend | 19.10 mm 0.75 in |
| Smoke Index Test Method | IEC 61034 |
| Tensile Strength | 36 kg 80 lb |
| Toxicity Index Test Method | IEC 60754-2 |

Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 30 MHz | 4.90 | 1.50 |
| 50 MHz | 6.20 | 1.90 |
| 150 MHz | 10.20 | 3.10 |
| 220 MHz | 12.50 | 3.80 |
| 450 MHz | 17.40 | 5.30 |
| 900 MHz | 24.90 | 7.60 |
| 1800 MHz | 35.75 | 10.90 |

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|----------|-------|-------|
| 2500 MHz | 42.31 | 12.90 |
| 3000 MHz | 46.48 | 14.17 |
| 4000 MHz | 53.92 | 16.44 |
| 4500 MHz | 57.30 | 17.47 |
| 5000 MHz | 60.51 | 18.45 |
| 5200 MHz | 61.76 | 18.83 |
| 5500 MHz | 63.60 | 19.39 |
| 5800 MHz | 66.90 | 20.40 |
| 6000 MHz | 73.82 | 22.50 |

* Values typical, guaranteed within 5%

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2015

CENELEC

Classification

Compliant

Below Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system

EN 50575 compliant, Declaration of Performance (DoP) available

