

## CNT-600-FR-300M

**CNT-600-FR, CNT® 50 Ohm Braided Coaxial Cable, 300 m, black non-halogenated, fire retardant polyolefin jacket**



### Construction Materials

|                          |                                            |
|--------------------------|--------------------------------------------|
| 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-clad aluminum wire                  |

### Dimensions

|                          |                       |
|--------------------------|-----------------------|
| Cable Length             | 300 m   984 ft        |
| Diameter Over Dielectric | 11.560 mm   0.455 in  |
| Diameter Over Jacket     | 14.990 mm   0.590 in  |
| Inner Conductor OD       | 4.4700 mm   0.1760 in |
| Nominal Size             | 0.600 in              |
| Outer Conductor OD       | 12.500 mm   0.492 in  |
| Reel Flange              | 610.0 mm   24.0 in    |
| Reel Hub                 | 254.0 mm   10.0 in    |
| Reel Traverse            | 406.0 mm   16.0 in    |
| Total Weight             | 59.7 kg   131.6 lb    |

### Electrical Specifications

|                                 |                                |
|---------------------------------|--------------------------------|
| Cable Impedance                 | 50 ohm                         |
| Capacitance                     | 76.0 pF/m   23.2 pF/ft         |
| dc Resistance, Inner Conductor  | 1.740 ohms/km   0.530 ohms/kft |
| dc Resistance, Outer Conductor  | 3.940 ohms/km   1.200 ohms/kft |
| dc Test Voltage                 | 4600 V                         |
| Jacket Spark Test Voltage (rms) | 8000 V                         |
| Maximum Frequency               | 10.20 GHz                      |
| Operating Frequency Band        | 30 – 6000 MHz                  |
| Peak Power                      | 40.0 kW                        |
| Shielding Effectiveness         | >90 dB                         |
| Velocity                        | 87%                            |

### Environmental Specifications

CNT-600FR-300M

POWERED BY



|                          |                                      |
|--------------------------|--------------------------------------|
| 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-600   |
| Braid Coverage | 90% braid |
| Brand          | CNT®      |
| Packaging Type | Reel      |

## Mechanical Specifications

|                                  |                        |
|----------------------------------|------------------------|
| Bending Moment                   | 3.7 N-m   2.8 ft lb    |
| Flat Plate Crush Strength        | 1.1 kg/mm   60.0 lb/in |
| Minimum Bend Radius, Single Bend | 38.10 mm   1.50 in     |
| Tensile Strength                 | 159 kg   350 lb        |

## Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 30 MHz    | 1.60                   | 0.49                    |
| 50 MHz    | 1.97                   | 0.60                    |
| 150 MHz   | 3.20                   | 0.97                    |
| 220 MHz   | 3.80                   | 1.17                    |
| 450 MHz   | 5.60                   | 1.71                    |
| 900 MHz   | 8.20                   | 2.50                    |
| 1500 MHz  | 10.80                  | 3.30                    |
| 1800 MHz  | 12.10                  | 3.70                    |
| 2000 MHz  | 12.80                  | 3.90                    |
| 2400 MHz  | 14.44                  | 4.40                    |
| 2500 MHz  | 14.80                  | 4.50                    |
| 3000 MHz  | 16.40                  | 5.00                    |
| 4000 MHz  | 19.36                  | 5.90                    |
| 4500 MHz  | 21.00                  | 6.40                    |
| 5000 MHz  | 22.31                  | 6.80                    |
| 5200 MHz  | 22.97                  | 7.00                    |
| 5500 MHz  | 23.62                  | 7.20                    |
| 5800 MHz  | 24.28                  | 7.40                    |
| 6000 MHz  | 24.93                  | 7.60                    |

\* Values typical, guaranteed within 5%

## Regulatory Compliance/Certifications

| Agency                     | Classification                                                                 |
|----------------------------|--------------------------------------------------------------------------------|
| RoHS 2011/65/EU            | Compliant                                                                      |
| China RoHS SJ/T 11364-2006 | Below Maximum Concentration Value (MCV)                                        |
| ISO 9001:2008              | Designed, manufactured and/or distributed under this quality management system |

