



## CNT-240-FR-600M

**CNT-240-FR, CNT® 50 Ohm Braided Coaxial Cable, 600 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

### Dimensions

Cable Length	600 m   1969 ft
Diameter Over Dielectric	3.810 mm   0.150 in
Diameter Over Jacket	6.100 mm   0.240 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	381.0 mm   15.0 in
Reel Hub	127.0 mm   5.0 in
Reel Traverse	305.0 mm   12.0 in
Total Weight	31.9 kg   70.3 lb

### Electrical Specifications

Cable Impedance	50 ohm
Capacitance	79.8 pF/m   24.4 pF/ft
dc Resistance, Inner Conductor	10.830 ohms/km   3.300 ohms/kft
dc Resistance, Outer Conductor	12.760 ohms/km   3.890 ohms/kft
dc Test Voltage	1500 V
Jacket Spark Test Voltage (rms)	5000 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

CNT-240FR-600M



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-240
Braid Coverage	90% braid
Brand	CNT®
Packaging Type	Reel

## Mechanical Specifications

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
Tensile Strength	36 kg   80 lb

## 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	26.24	8.00
1500 MHz	35.75	10.90
1800 MHz	39.69	12.10
2000 MHz	42.97	13.10
2400 MHz	42.97	13.10
2500 MHz	48.87	14.90
3000 MHz	54.77	16.70
4000 MHz	57.74	17.60
4500 MHz	62.01	18.90
5000 MHz	66.27	20.20
5200 MHz	67.91	20.70
5500 MHz	70.21	21.40
5800 MHz	72.51	22.10
6000 MHz	73.82	22.50

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	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

