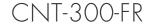
Product Specifications







CNT-300-FR CNT \$ 50 Ohm Braided Coaxial Cable, 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 Weight 0.06 kg/m

Diameter Over Dielectric 4.830 mm | 0.190 in

Diameter Over Jacket 7.620 mm | 0.300 in

Inner Conductor OD 1.7800 mm | 0.0700 in

Nominal Size 0.300 in

Outer Conductor OD 5.660 mm | 0.223 in

Electrical Specifications

Cable Impedance 50 ohm

Capacitance 80.4 pF/m | 24.5 pF/ft

dc Resistance, Inner Conductor 6.960 ohms/km | 2.120 ohms/kft dc Resistance, Outer Conductor 7.980 ohms/km | 2.430 ohms/kft

dc Test Voltage 2500 V

Jacket Spark Test Voltage (rms) 5000 V

Maximum Frequency 24.50 GHz

Operating Frequency Band 30 – 6000 MHz

Peak Power 10.0 kW

Shielding Effectiveness >90 dB Velocity 83%

Environmental Specifications

Installation Temperature $-40 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-40 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)
Operating Temperature $-40 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-40 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)
Storage Temperature $-70 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-94 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)

Product Specifications



CNT-300-FR



General Specifications

Cable Type CNT-300
Braid Coverage 87% braid
Brand CNT®
Packaging Type Reel

Mechanical Specifications

Bending Moment 0.5 N-m | 0.4 ft lb Flat Plate Crush Strength 0.5 kg/mm | 30.0 lb/in Minimum Bend Radius, Single Bend 22.20 mm | 0.88 in Tensile Strength 55 kg | 120 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	3.80	1.16
50 MHz	4.90	1.50
150 MHz	7.90	2.40
220 MHz	9.50	2.90
450 MHz	13.10	4.00
900 MHz	19.40	5.90
1500 MHz	25.30	7.70
1800 MHz	28.20	8.60
2000 MHz	29.80	9.10
2500 MHz	33.80	10.30
3000 MHz	37.40	11.40

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



