CNT-300-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 Coverage87 %Cable TypeCNT-300Jacket ColorBlack

Dimensions

 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

Cable Impedance 50 ohm

 $\textbf{Capacitance} \hspace{1.5cm} 80.4 \hspace{.05cm} \text{pF/m} \hspace{.1cm} | \hspace{.1cm} 24.506 \hspace{.05cm} \text{pF/ft}$

dc Resistance, Inner Conductor6.96 ohms/km | 2.121 ohms/kftdc Resistance, Outer Conductor8.5 ohms/km | 2.591 ohms/kft

dc Test Voltage 2500 V

Jacket Spark Test Voltage (rms) 3500 V

COMMSCOPE®

CNT-300-FR

Maximum Frequency 24.5 GHz

Operating Frequency Band 30 – 6000 MHz

Peak Power10 kWShielding Effectiveness90 dBVelocity83 %

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

Braid Material Tinned copper

Dielectric Material Foam PE

Jacket Material Non-halogenated, fire retardant polyolefin

 Inner Conductor Material
 Copper

 Shield Tape Material
 Aluminum



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Mechanical Specifications

Minimum Bend Radius, single Bend 22.352 mm | 0.88 in

Tensile Strength 55 kg | 121.254 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

Installation temperature $-40 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \text{ (-40 }^{\circ}\text{F to } +140 \,^{\circ}\text{F)}$

Storage Temperature $-40 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ ($-40 \,^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

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

Cable weight 0.08 kg/m | 0.054 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

ROHS Compliant



