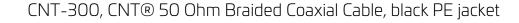
CNT-300





Product Classification

Product Type Braided coaxial cable

Product Brand CNT®
Product Series CNT-300

General Specifications

Braid Coverage 87 %
Cable Type CNT-300
Jacket Color Black

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

Capacitance 80.4 pF/m | 24.506 pF/ft

dc Resistance, Inner Conductor6.96 ohms/km2.121 ohms/kftdc Resistance, Outer Conductor8.5 ohms/km2.591 ohms/kft

dc Test Voltage2500 VJacket Spark Test Voltage (rms)3500 VMaximum Frequency24.5 GHz

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CNT-300

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
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 MaterialTinned copperDielectric MaterialFoam PEJacket MaterialPEInner Conductor MaterialCopperShield Tape MaterialAluminum

Mechanical Specifications

Minimum Bend Radius, single Bend0.88 in | 22.352 mmTensile Strength55 kg | 121.254 lb

COMMSCOPE®

CNT-300

Bending Moment0.5 N-m4.425 in lbFlat Plate Crush Strength0.5 kg/mm27.999 lb/in

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 $+185 \,^{\circ}\text{F}$)

Packaging and Weights

Cable weight 0.06 kg/m | 0.434 lb/ft

Packaging Type Reel

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

