



CNT-195-FR-300M

CNT-195-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

Dimensions

Cable Length	300 m 984 ft
Diameter Over Dielectric	2.790 mm 0.110 in
Diameter Over Jacket	4.950 mm 0.195 in
Inner Conductor OD	0.9400 mm 0.0370 in
Nominal Size	0.195 in
Outer Conductor OD	3.500 mm 0.138 in
Reel Flange	305.0 mm 12.0 in
Reel Hub	127.0 mm 5.0 in
Reel Traverse	210.0 mm 8.3 in
Total Weight	10.3 kg 22.7 lb

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	79.7 pF/m 24.3 pF/ft
dc Resistance, Inner Conductor	24.940 ohms/km 7.600 ohms/kft
dc Resistance, Outer Conductor	16.080 ohms/km 4.900 ohms/kft
dc Test Voltage	1500 V
Jacket Spark Test Voltage (rms)	3000 V
Maximum Frequency	37.90 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	2.5 kW
Shielding Effectiveness	>90 dB
Velocity	75%

Environmental Specifications

CNT-195-FR-300M



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-195
Braid Coverage	89% braid
Brand	CNT®
Packaging Type	Reel

Mechanical Specifications

Bending Moment	0.3 N-m 0.2 ft lb
Flat Plate Crush Strength	0.3 kg/mm 15.0 lb/in
Minimum Bend Radius, Single Bend	12.70 mm 0.50 in
Tensile Strength	18 kg 40 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	7.20	2.20
50 MHz	8.90	2.70
150 MHz	14.10	4.30
220 MHz	17.10	5.20
450 MHz	25.30	7.70
900 MHz	37.10	11.30
1500 MHz	49.50	15.10
1800 MHz	55.10	16.80
2000 MHz	58.70	17.90
2500 MHz	66.90	20.40
3000 MHz	74.80	22.80

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

