

C100-SMSR



CNT-100 CNT® Jumper with interface types SMA Male and SMA Male Right Angle, variable length

Product Classification

Brand	CNT®
Product Series	CNT-100
Product Type	Braided cable assembly

General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Right angle
Interface, Connector A	SMA Male
Interface, Connector B	SMA Male
Length	0.000 m 0.000 ft
Nominal Size	0.100 in
Specification Sheet Revision Level	A
Variable Length	For custom lengths contact 828-324-2200 or 1-800-982-1708 (toll free), or your local CommScope representative

Jumper Assembly Sample Label



Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
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C100-SMSR

700–3000 MHz

1.43

15.00

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system



Included Products

CNT-100-FR — CNT-100-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket

CNT-100-FR

CNT-100-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket



Product Classification

Brand	CNT®
Product Series	CNT-100
Product Type	Braided coaxial cable

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	0.02 kg/m
Diameter Over Dielectric	1.550 mm 0.061 in
Diameter Over Jacket	2.790 mm 0.110 in
Inner Conductor OD	0.4600 mm 0.0181 in
Nominal Size	0.100 in
Outer Conductor OD	2.060 mm 0.081 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	102.0 pF/m 31.2 pF/ft
dc Resistance, Inner Conductor	105.000 ohms/km 32.000 ohms/kft
dc Resistance, Outer Conductor	28.200 ohms/km 8.600 ohms/kft
dc Test Voltage	500 V
Jacket Spark Test Voltage (rms)	1500 V
Maximum Frequency	61.00 GHz

CNT-100-FR

Operating Frequency Band	30 – 6000 MHz
Peak Power	0.6 kW
Shielding Effectiveness	>90 dB
Velocity	66%

Environmental Specifications

Installation Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)

General Specifications

Cable Type	CNT-100
Braid Coverage	93% braid
Packaging Type	Reel

Mechanical Specifications

Bending Moment	0.1 N-m 0.1 ft lb
Flat Plate Crush Strength	0.2 kg/mm 10.0 lb/in
Minimum Bend Radius, Single Bend	6.40 mm 0.25 in
Tensile Strength	7 kg 15 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	12.80	3.90
50 MHz	16.40	5.00
150 MHz	27.60	8.40
220 MHz	33.50	10.20
450 MHz	48.20	14.70
900 MHz	70.20	21.40
1500 MHz	93.50	28.50
1800 MHz	103.60	31.60
2000 MHz	110.20	33.60
2500 MHz	125.30	38.20
3000 MHz	139.40	42.50
4000 MHz	171.70	52.35
4500 MHz	183.60	55.98
5000 MHz	195.10	59.48
5200 MHz	198.40	60.49
5500 MHz	206.00	62.81
5800 MHz	212.40	64.76
6000 MHz	216.60	66.04

* Values typical, guaranteed within 5%

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