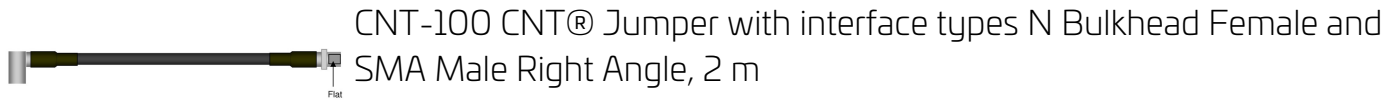


C100-BNFSR-2M



Product Classification

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

General Specifications

Body Style, Connector A	Bulkhead
Body Style, Connector B	Right angle
Cable Family	CNT-100
Interface, Connector A	N Female
Interface, Connector B	SMA Male
Specification Sheet Revision Level	A

Dimensions

Length	2 m 6.562 ft
Nominal Size	0.100 in

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.329	17

Jumper Assembly Sample Label

C100-BNFSR-2M



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

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

General Specifications

Braid Coverage	93 %
Cable Type	CNT-100
Jacket Color	Black

Dimensions

Diameter Over Dielectric	1.55 mm 0.061 in
Diameter Over Jacket	2.79 mm 0.11 in
Inner Conductor OD	0.46 mm 0.018 in
Outer Conductor OD	2.06 mm 0.081 in
Nominal Size	0.100 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	102 pF/m 31.09 pF/ft
dc Resistance, Inner Conductor	105 ohms/km 32.004 ohms/kft
dc Resistance, Outer Conductor	28.2 ohms/km 8.595 ohms/kft
dc Test Voltage	500 V
Jacket Spark Test Voltage (rms)	1500 V
Maximum Frequency	61 GHz

CNT-100-FR

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

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30.0	12.8	3.9
50.0	16.4	5
150.0	27.6	8.4
220.0	33.5	10.2
450.0	48.2	14.7
900.0	70.2	21.4
1500.0	93.5	28.5
1800.0	103.6	31.6
2000.0	110.2	33.6
2500.0	125.3	38.2
3000.0	139.4	42.5
4000.0	171.7	52.35
4500.0	183.6	55.98
5000.0	195.1	59.48
5200.0	198.4	60.49
5500.0	206	62.81
5800.0	212.4	64.76
6000.0	216.6	66.04

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

Mechanical Specifications

Minimum Bend Radius, single Bend	6.35 mm 0.25 in
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CNT-100-FR

Tensile Strength	7 kg 15.432 lb
Bending Moment	0.1 N-m 0.885 in lb
Flat Plate Crush Strength	0.2 kg/mm 11.199 lb/in

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)

Packaging and Weights

Cable weight	0.02 kg/m 0.013 lb/ft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant

