

# C100-BNFSR-2M

CNT-100 CNT® Jumper with interface types N Bulkhead Female and SMA Male Right Angle, 2 m



## 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

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

## Attenuation

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

## Material Specifications

<b>Braid Material</b>	Tinned copper
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	Non-halogenated, fire retardant polyolefin
<b>Inner Conductor Material</b>	Copper
<b>Shield Tape Material</b>	Aluminum

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	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

