

# C195-NFQMR-M6



CNT-195 CNT® Jumper with interface types N Female and QMA Male Right Angle, 0.6 m

## Product Classification

Brand	CNT®
Product Series	CNT-195
Product Type	Braided cable assembly

## General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Right angle
Interface, Connector A	N Female
Interface, Connector B	QMA Male
Length	0.600 m   1.969 ft
Nominal Size	0.195 in
Specification Sheet Revision Level	A

## Jumper Assembly Sample Label

The label contains the following information:

- Batch:** 0123456789
- Manufacturing Date (two digit year and week):** US22 1240
- Manufacturing Plant:** US22
- Product Revision:** /A
- Part Number:** F4-DMDM-2M-D
- Serial Number:** 12US220001242

Other text on the label includes: COMMScope® Andrew Solutions™, 2 M (6.562 FT), SUREFLEX ASSEMBLY, U.S. PATENT 5802710, Product of UNITED STATES, and a barcode.

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
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

195PNF-CR — Type N Female for CNT-195 braided cable

CNT-195-FR — CNT-195-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant

CNT-195-P — CNT-195, CNT® 50 Ohm Braided Coaxial Cable, white plenum CMP(ETL) C(ETL), fire retardant.

419001003/10 | CNT-195-P-6G — CNT-195, CNT® 50 Ohm Braided Coaxial Cable, white plenum CMP(ETL) C(ETL), fire retardant.

# 195PNF-CR

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Type N Female for CNT-195 braided cable

## Product Classification

<b>Brand</b>	CNT®
<b>Product Type</b>	Braided cable connector

## General Specifications

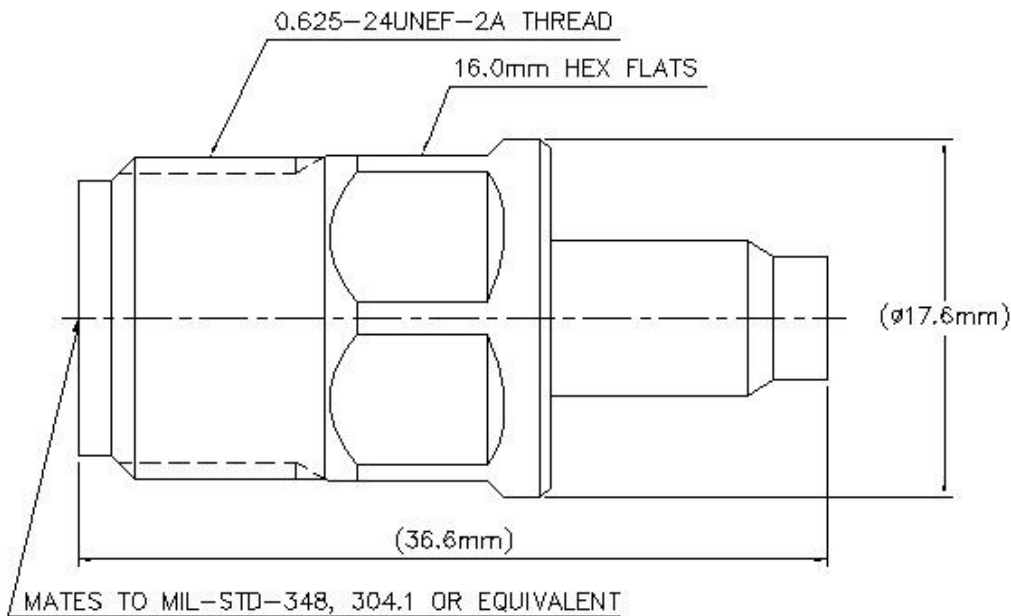
<b>Interface</b>	N Female
<b>Body Style</b>	Straight

## Electrical Specifications

<b>Operating Frequency Band</b>	0 – 6000 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>RF Operating Voltage, maximum (vrms)</b>	353.00 V
<b>dc Test Voltage</b>	1000 V
<b>Outer Contact Resistance, maximum</b>	0.25 mOhm
<b>Inner Contact Resistance, maximum</b>	1.00 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Peak Power, maximum</b>	2.50 kW
<b>Insertion Loss, typical</b>	0.05 dB

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## Outline Drawing



## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Crimp
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Silver
<b>Inner Contact Attachment Method</b>	Solder
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Connector Retention Tensile Force</b>	134 N   30 lbf
<b>Connector Retention Torque</b>	0.17 N-m   0.13 ft lb

## Dimensions

<b>Nominal Size</b>	0.195 in
<b>Diameter</b>	17.60 mm   0.69 in
<b>Length</b>	36.62 mm   1.44 in
<b>Weight</b>	38.00 g   0.08 lb
<b>Width</b>	17.60 mm   0.69 in

## Environmental Specifications

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<b>Operating Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Storage Temperature</b>	-65 °C to +125 °C (-85 °F to +257 °F)
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP65
<b>Mechanical Shock Test Method</b>	IEC 60068-2-27
<b>Climatic Sequence Test Method</b>	IEC 60068-1
<b>Damp Heat Steady State Test Method</b>	IEC 60068-2-3
<b>Thermal Shock Test Method</b>	IEC 60068-2-14
<b>Vibration Test Method</b>	IEC 60068-2-6
<b>Corrosion Test Method</b>	IEC 60068-2-11

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Average Power, Inner Conductor Temperature</b>	100 °C   212 °F

## Return Loss/VSWR

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
0–3000 MHz	1.09	27.00
3000–6000 MHz	1.17	22.00

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015  
China RoHS SJ/T 11364-2014

### Classification

Compliant by Exemption  
Designed, manufactured and/or distributed under this quality management system  
Above Maximum Concentration Value (MCV)



## \* Footnotes

**Insertion Loss, typical** 0.05√freq (GHz) (not applicable for elliptical waveguide)

# CNT-195-FR

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CNT-195-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant



## Product Classification

<b>Brand</b>	CNT®
<b>Product Series</b>	CNT-195
<b>Product Type</b>	Braided coaxial cable

## Standards And Qualifications

<b>EN50575 CPR Cable EuroClass</b>	Dca   s2   d2
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## Construction Materials

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

## Dimensions

<b>Cable Weight</b>	0.03 kg/m
<b>Diameter Over Dielectric</b>	2.790 mm   0.110 in
<b>Diameter Over Jacket</b>	4.950 mm   0.195 in
<b>Inner Conductor OD</b>	0.9400 mm   0.0370 in
<b>Nominal Size</b>	0.195 in
<b>Outer Conductor OD</b>	3.500 mm   0.138 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	79.7 pF/m   24.3 pF/ft
<b>dc Resistance, Inner Conductor</b>	25.500 ohms/km   7.780 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.080 ohms/km   4.900 ohms/kft

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<b>dc Test Voltage</b>	1500 V
<b>Jacket Spark Test Voltage (rms)</b>	3000 V
<b>Maximum Frequency</b>	37.90 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	2.5 kW
<b>Shielding Effectiveness</b>	>90 dB
<b>Velocity</b>	75%

## Environmental Specifications

<b>Installation Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Operating Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Storage Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)

## General Specifications

<b>Cable Type</b>	CNT-195
<b>Braid Coverage</b>	89% braid
<b>Packaging Type</b>	Reel

## Mechanical Specifications

<b>Bending Moment</b>	0.3 N-m   0.2 ft lb
<b>Flat Plate Crush Strength</b>	0.3 kg/mm   15.0 lb/in
<b>Minimum Bend Radius, Single Bend</b>	12.70 mm   0.50 in
<b>Smoke Index Test Method</b>	IEC 61034
<b>Tensile Strength</b>	18 kg   40 lb
<b>Toxicity Index Test Method</b>	IEC 60754-2

## Electrical Performance

<b>Frequency</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30 MHz	6.56	2.00
50 MHz	8.53	2.60
150 MHz	14.43	4.40
220 MHz	17.71	5.40
450 MHz	25.58	7.80
700 MHz	32.05	9.77
800 MHz	34.31	10.46
900 MHz	36.41	11.10
1500 MHz	47.79	14.57
1800 MHz	52.48	16.00
2100 MHz	56.84	17.33
2500 MHz	62.32	19.00
3000 MHz	68.58	20.91
4000 MHz	79.87	24.35

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4500 MHz	85.05	25.93
5000 MHz	89.97	27.43
5200 MHz	91.87	28.01
5500 MHz	94.66	28.86
5800 MHz	97.42	29.70
6000 MHz	99.19	30.24

\* Values typical, guaranteed within 5%

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015  
CENELEC  
China RoHS SJ/T 11364-2014

### Classification

Compliant  
Designed, manufactured and/or distributed under this quality management system  
EN 50575 compliant, Declaration of Performance (DoP) available  
Above Maximum Concentration Value (MCV)





# CNT-195-P



CNT-195, CNT® 50 Ohm Braided Coaxial Cable, white plenum CMP(ETL) C (ETL), fire retardant.

## Product Classification

<b>Brand</b>	CNT®
<b>Product Series</b>	CNT-195
<b>Product Type</b>	Braided coaxial cable

## Construction Materials

<b>Jacket Color</b>	White
<b>Jacket Material</b>	Fire retardant PVC
<b>Braid Material</b>	Tinned copper
<b>Shield Tape Material</b>	Aluminum
<b>Dielectric Material</b>	Foam FEP
<b>Inner Conductor Material</b>	Copper

## Dimensions

<b>Cable Weight</b>	37.00 kg/km
<b>Diameter Over Dielectric</b>	2.790 mm   0.110 in
<b>Diameter Over Jacket</b>	4.320 mm   0.170 in
<b>Inner Conductor OD</b>	0.9400 mm   0.0370 in
<b>Outer Conductor OD</b>	3.530 mm   0.139 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	87.2 pF/m   26.6 pF/ft
<b>dc Resistance, Inner Conductor</b>	25.500 ohms/km   7.780 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.080 ohms/km   4.900 ohms/kft
<b>dc Test Voltage</b>	2000 V
<b>Jacket Spark Test Voltage (rms)</b>	2000 V
<b>Maximum Frequency</b>	37.90 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz
<b>Peak Power</b>	2.5 kW
<b>Shielding Effectiveness</b>	>90 dB
<b>Velocity</b>	75%

## Environmental Specifications

<b>Installation Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Operating Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)

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**Storage Temperature** -40 °C to +75 °C (-40 °F to +167 °F)

## General Specifications

**Cable Type** CNT-195  
**Braid Coverage** 89% braid  
**Packaging Type** Reel

## Mechanical Specifications

**Bending Moment** 0.1 N-m | 0.1 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	6.56	2.00
50 MHz	8.20	2.50
150 MHz	14.43	4.40
220 MHz	17.40	5.30
450 MHz	25.58	7.80
900 MHz	37.79	11.52
1800 MHz	56.88	17.34
2500 MHz	68.95	21.02
3000 MHz	76.39	23.29
4000 MHz	89.90	27.41
4500 MHz	96.20	29.33
5000 MHz	102.80	31.34
5200 MHz	105.32	32.11
5500 MHz	108.50	33.08
5800 MHz	112.18	34.20
6000 MHz	114.41	34.88

\* Values typical, guaranteed within 5%

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Below Maximum Concentration Value (MCV)





CNT-195, CNT® 50 Ohm Braided Coaxial Cable, white plenum CMP(ETL) C (ETL), fire retardant.

## Product Classification

<b>Brand</b>	CNT®
<b>Product Series</b>	CNT-195
<b>Product Type</b>	Braided coaxial cable

## Construction Materials

<b>Jacket Color</b>	White
<b>Jacket Material</b>	Fire retardant PVC
<b>Braid Material</b>	Tinned copper
<b>Shield Tape Material</b>	Aluminum
<b>Dielectric Material</b>	Foam FEP
<b>Inner Conductor Material</b>	Copper

## Dimensions

<b>Cable Weight</b>	37.00 kg/km
<b>Diameter Over Dielectric</b>	2.790 mm   0.110 in
<b>Diameter Over Jacket</b>	4.320 mm   0.170 in
<b>Inner Conductor OD</b>	0.9400 mm   0.0370 in
<b>Outer Conductor OD</b>	3.530 mm   0.139 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	87.2 pF/m   26.6 pF/ft
<b>dc Resistance, Inner Conductor</b>	25.400 ohms/km   7.740 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.080 ohms/km   4.900 ohms/kft
<b>dc Test Voltage</b>	2000 V
<b>Jacket Spark Test Voltage (rms)</b>	2000 V
<b>Maximum Frequency</b>	37.90 GHz
<b>Operating Frequency Band</b>	1 – 6000 MHz
<b>Peak Power</b>	2.5 kW
<b>Shielding Effectiveness</b>	>90 dB
<b>Velocity</b>	75%

## Environmental Specifications

<b>Installation Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Operating Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)

**Storage Temperature** -40 °C to +75 °C (-40 °F to +167 °F)

## General Specifications

**Cable Type** CNT-195  
**Braid Coverage** 89% braid  
**Packaging Type** Reel

## Mechanical Specifications

**Bending Moment** 0.1 N-m | 0.1 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

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
100–6000 MHz	1.38	16.00

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	6.56	2.00
50 MHz	8.20	2.50
150 MHz	14.43	4.40
220 MHz	17.40	5.30
450 MHz	25.58	7.80
900 MHz	37.79	11.52
1800 MHz	56.88	17.34
2500 MHz	68.95	21.02
3000 MHz	76.39	23.29
4000 MHz	89.90	27.41
4500 MHz	96.20	29.33
5000 MHz	102.80	31.34
5200 MHz	105.32	32.11
5500 MHz	108.50	33.08
5800 MHz	112.18	34.20
6000 MHz	114.41	34.88

\* Values typical, guaranteed within 5%

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)

