

# 244813-M5

CNT-195 CNT® Jumper with interface types N Male and TNC Male, 0.5 m



**OBSOLETE**

## Product Classification

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

## General Specifications

<b>Body Style, Connector A</b>	Straight
<b>Body Style, Connector B</b>	Straight
<b>Cable Family</b>	CNT-195
<b>Interface, Connector A</b>	N Male
<b>Interface, Connector B</b>	TNC Male
<b>Specification Sheet Revision Level</b>	A

## Dimensions

<b>Length</b>	0.5 m   1.64 ft
<b>Nominal Size</b>	0.195 in

## Electrical Specifications

<b>DTF, Connector A</b>	-26 dB
<b>DTF, Connector B</b>	-28 dB

## VSWR/Return Loss

**Frequency Band**

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0-2700 MHz

## Jumper Assembly Sample Label



## Regulatory Compliance/Certifications

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



## Included Products

195PNM-CR	- Type N Male for CNT-195 braided cable
195PTM	- TNC Male for CNT-195 braided cable
419001003/10 CNT-195-P-6G	- CNT-195, CNT® 50 Ohm Braided Coaxial Cable, white plenum CMP(ETL) C(ETL), fire retardant.
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.

# 195PNM-CR

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Type N Male for CNT-195 braided cable



## Product Classification

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

## General Specifications

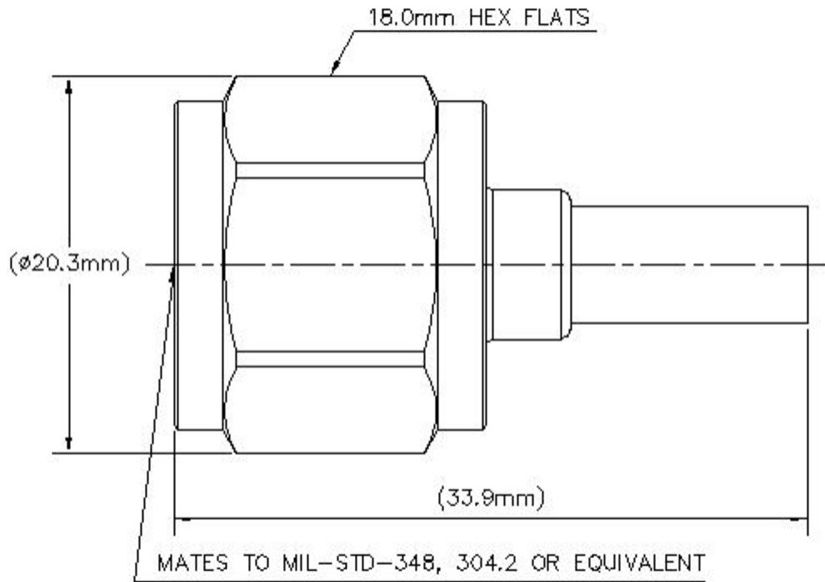
<b>Body Style</b>	Straight
<b>Inner Contact Attachment Method</b>	Solder
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	N Male
<b>Outer Contact Attachment Method</b>	Crimp
<b>Outer Contact Plating</b>	Trimetal

## Dimensions

<b>Width</b>	20.62 mm   0.812 in
<b>Length</b>	33.81 mm   1.331 in
<b>Diameter</b>	22.35 mm   0.88 in
<b>Nominal Size</b>	0.195 in

## Outline Drawing

# 195PNM-CR



## Electrical Specifications

<b>Insertion Loss, typical</b>	0.05 dB
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	1000 V
<b>Inner Contact Resistance, maximum</b>	1 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 6000 MHz
<b>Outer Contact Resistance, maximum</b>	0.25 mOhm
<b>Peak Power, maximum</b>	2.5 kW
<b>RF Operating Voltage, maximum (vrms)</b>	353 V

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.058	31.01
3000–6000 MHz	1.173	21.99

## Mechanical Specifications

<b>Connector Retention Tensile Force</b>	134 N   30.124 lbf
<b>Connector Retention Torque</b>	0.17 N-m   1.505 in lb

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<b>Coupling Nut Proof Torque</b>	1.7 N-m   15.046 in lb
<b>Coupling Nut Proof Torque Method</b>	IEC 61169-16:9.3.6
<b>Coupling Nut Retention Force</b>	450 N   101.164 lbf
<b>Coupling Nut Retention Force Method</b>	IEC 61169-16:9.3.11
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Mechanical Shock Test Method</b>	IEC 60068-2-27

## Environmental Specifications

<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>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
<b>Climatic Sequence Test Method</b>	IEC 60068-1
<b>Corrosion Test Method</b>	IEC 60068-2-11
<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>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP65

## Packaging and Weights

<b>Weight, net</b>	40.32 g   0.089 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant



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## \* Footnotes

**Insertion Loss, typical**  $0.05\sqrt{\text{freq}}$  (GHz) (not applicable for elliptical waveguide)

# 195PTM

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TNC Male for CNT-195 braided cable



## Product Classification

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

## General Specifications

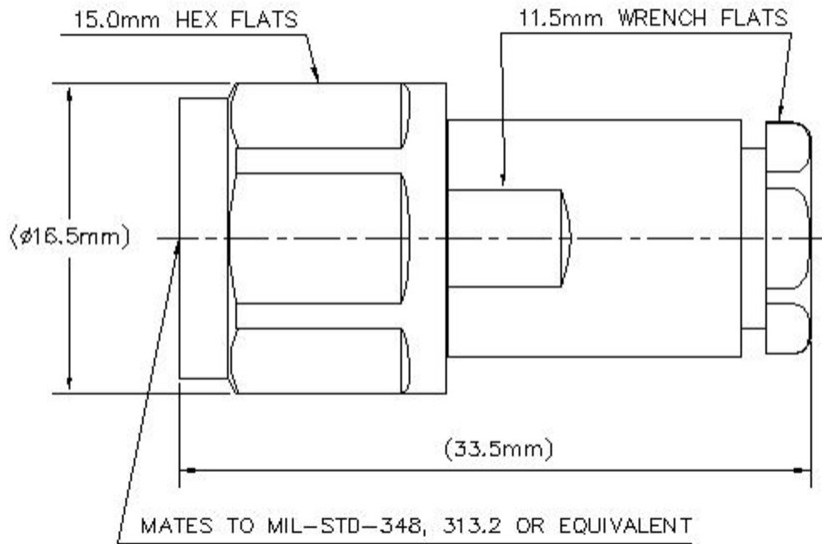
<b>Body Style</b>	Straight
<b>Inner Contact Attachment Method</b>	Solder
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	TNC Male
<b>Outer Contact Attachment Method</b>	Clamp
<b>Outer Contact Plating</b>	Silver

## Dimensions

<b>Width</b>	16.5 mm   0.65 in
<b>Length</b>	33.51 mm   1.319 in
<b>Diameter</b>	16.5 mm   0.65 in
<b>Nominal Size</b>	0.195 in

## Outline Drawing

# 195PTM



## Electrical Specifications

<b>Insertion Loss, typical</b>	0.05 dB
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	1000 V
<b>Inner Contact Resistance, maximum</b>	1.5 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 6000 MHz
<b>Outer Contact Resistance, maximum</b>	0.4 mOhm
<b>Peak Power, maximum</b>	2.5 kW
<b>RF Operating Voltage, maximum (vrms)</b>	353 V

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.065	30.05
3000–6000 MHz	1.119	25.02

## Mechanical Specifications

<b>Connector Retention Tensile Force</b>	134 N   30.124 lbf
<b>Connector Retention Torque</b>	0.17 N-m   1.505 in lb



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<b>Coupling Nut Proof Torque</b>	1.7 N-m   15.046 in lb
<b>Coupling Nut Proof Torque Method</b>	IEC 61169-17:9.3.6
<b>Coupling Nut Retention Force</b>	445 N   100.04 lbf
<b>Coupling Nut Retention Force Method</b>	IEC 61169-17:9.3.11
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-17:9.5
<b>Mechanical Shock Test Method</b>	IEC 60068-2-27

## Environmental Specifications

<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>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
<b>Climatic Sequence Test Method</b>	IEC 60068-1
<b>Corrosion Test Method</b>	IEC 60068-2-11
<b>Damp Heat Steady State Test Method</b>	IEC 60068-2-3
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Thermal Shock Test Method</b>	IEC 60068-2-14
<b>Vibration Test Method</b>	IEC 60068-2-6

## Packaging and Weights

<b>Weight, net</b>	30.18 g   0.067 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



### \* Footnotes

# 195PTM

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<b>Insertion Loss, typical</b>	0.05√freq (GHz) (not applicable for elliptical waveguide)
<b>Immersion Depth</b>	Immersion at specified depth for 24 hours

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



## Product Classification

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

## General Specifications

<b>Braid Coverage</b>	89 %
<b>Cable Type</b>	CNT-195
<b>Jacket Color</b>	White

## Dimensions

<b>Diameter Over Dielectric</b>	2.79 mm   0.11 in
<b>Diameter Over Jacket</b>	4.32 mm   0.17 in
<b>Inner Conductor OD</b>	0.94 mm   0.037 in
<b>Outer Conductor OD</b>	3.53 mm   0.139 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	87.2 pF/m   26.579 pF/ft
<b>dc Resistance, Inner Conductor</b>	25.4 ohms/km   7.742 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.08 ohms/km   4.901 ohms/kft
<b>dc Test Voltage</b>	2000 V
<b>Jacket Spark Test Voltage (rms)</b>	2000 V
<b>Maximum Frequency</b>	37.9 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 %

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
100–6000 MHz	1.38	16

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30.0	6.56	2
50.0	8.2	2.5
150.0	14.43	4.4
220.0	17.4	5.3
450.0	25.58	7.8
900.0	37.79	11.52
1800.0	56.88	17.34
2500.0	68.95	21.02
3000.0	76.39	23.29
4000.0	89.9	27.41
4500.0	96.2	29.33
5000.0	102.8	31.34
5200.0	105.32	32.11
5500.0	108.5	33.08
5800.0	112.18	34.2
6000.0	114.41	34.88

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	12.7 mm   0.5 in
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<b>Tensile Strength</b>	18 kg   39.683 lb
<b>Bending Moment</b>	0.1 N-m   0.885 in lb
<b>Flat Plate Crush Strength</b>	0.3 kg/mm   16.799 lb/in

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

## Packaging and Weights

<b>Cable weight</b>	0.04 kg/m   0.027 lb/ft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

### Agency

ISO 9001:2015



### Classification

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

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

## General Specifications

<b>Braid Coverage</b>	89 %
<b>Cable Type</b>	CNT-195
<b>Jacket Color</b>	Black

## Dimensions

<b>Diameter Over Dielectric</b>	2.79 mm   0.11 in
<b>Diameter Over Jacket</b>	4.95 mm   0.195 in
<b>Inner Conductor OD</b>	0.94 mm   0.037 in
<b>Outer Conductor OD</b>	3.5 mm   0.138 in
<b>Nominal Size</b>	0.195 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	79.7 pF/m   24.293 pF/ft
<b>dc Resistance, Inner Conductor</b>	25.5 ohms/km   7.772 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.08 ohms/km   4.901 ohms/kft
<b>dc Test Voltage</b>	1500 V
<b>Jacket Spark Test Voltage (rms)</b>	3000 V
<b>Maximum Frequency</b>	37.9 GHz

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<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 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30.0	6.56	2
50.0	8.53	2.6
150.0	14.43	4.4
220.0	17.71	5.4
450.0	25.58	7.8
700.0	32.05	9.77
800.0	34.31	10.46
900.0	36.41	11.1
1500.0	47.79	14.57
1800.0	52.48	16
2100.0	56.84	17.33
2500.0	62.32	19
3000.0	68.58	20.91
4000.0	79.87	24.35
4500.0	85.05	25.93
5000.0	89.97	27.43
5200.0	91.87	28.01
5500.0	94.66	28.86
5800.0	97.42	29.7
6000.0	99.19	30.24

## 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

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## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	12.7 mm   0.5 in
<b>Tensile Strength</b>	18 kg   39.683 lb
<b>Bending Moment</b>	0.3 N-m   2.655 in lb
<b>Flat Plate Crush Strength</b>	0.3 kg/mm   16.799 lb/in

## 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)
<b>EN50575 CPR Cable EuroClass Fire Performance</b>	Dca
<b>EN50575 CPR Cable EuroClass Smoke Rating</b>	s2
<b>EN50575 CPR Cable EuroClass Droplets Rating</b>	d2
<b>Smoke Index Test Method</b>	IEC 61034
<b>Toxicity Index Test Method</b>	IEC 60754-2

## Packaging and Weights

<b>Cable weight</b>	0.03 kg/m   0.02 lb/ft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant





# CNT-195-P

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



## Product Classification

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

## General Specifications

<b>Braid Coverage</b>	89 %
<b>Cable Type</b>	CNT-195
<b>Jacket Color</b>	White

## Dimensions

<b>Diameter Over Dielectric</b>	2.79 mm   0.11 in
<b>Diameter Over Jacket</b>	4.32 mm   0.17 in
<b>Inner Conductor OD</b>	0.94 mm   0.037 in
<b>Outer Conductor OD</b>	3.53 mm   0.139 in

## Electrical Specifications

<b>Cable Impedance</b>	50 ohm
<b>Capacitance</b>	87.2 pF/m   26.579 pF/ft
<b>dc Resistance, Inner Conductor</b>	25.5 ohms/km   7.772 ohms/kft
<b>dc Resistance, Outer Conductor</b>	16.08 ohms/km   4.901 ohms/kft
<b>dc Test Voltage</b>	2000 V
<b>Jacket Spark Test Voltage (rms)</b>	2000 V
<b>Maximum Frequency</b>	37.9 GHz
<b>Operating Frequency Band</b>	30 – 6000 MHz

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<b>Peak Power</b>	2.5 kW
<b>Shielding Effectiveness</b>	90 dB
<b>Velocity</b>	75 %

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
30.0	6.56	2
50.0	8.2	2.5
150.0	14.43	4.4
220.0	17.4	5.3
450.0	25.58	7.8
900.0	37.79	11.52
1800.0	56.88	17.34
2500.0	68.95	21.02
3000.0	76.39	23.29
4000.0	89.9	27.41
4500.0	96.2	29.33
5000.0	102.8	31.34
5200.0	105.32	32.11
5500.0	108.5	33.08
5800.0	112.18	34.2
6000.0	114.41	34.88

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	12.7 mm   0.5 in
<b>Tensile Strength</b>	18 kg   39.683 lb
<b>Bending Moment</b>	0.1 N-m   0.885 in lb
<b>Flat Plate Crush Strength</b>	0.3 kg/mm   16.799 lb/in

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

## Packaging and Weights

<b>Cable weight</b>	0.04 kg/m   0.027 lb/ft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

