



C195-SMSR-25

CNT-195 CNT® Jumper with interface types SMA Male and SMA Male Right Angle, 7.62 m

General Specifications

| | |
|-------------------------|---------------------|
| Body Style, Connector A | Straight |
| Body Style, Connector B | Right angle |
| Cable Family | CNT-195 |
| Interface, Connector A | SMA Male |
| Interface, Connector B | SMA Male |
| Nominal Size | 0.195 in |
| Length | 7.620 m 25.000 ft |

Jumper Assembly Sample Label



Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 700–3000 MHz | 1.43 | 15.00 |

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

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



C195-SMSR-25

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Included Products

195PSM-CR — SMA Male for CNT-195 braided cable

195APSR-CR — SMA Male Right Angle for CNT-195 braided cable

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

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

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195PSM-CR

SMA Male for CNT-195 braided cable

General Specifications

| | |
|------------|----------|
| Interface | SMA Male |
| Body Style | Straight |
| Brand | CNT® |

Electrical Specifications

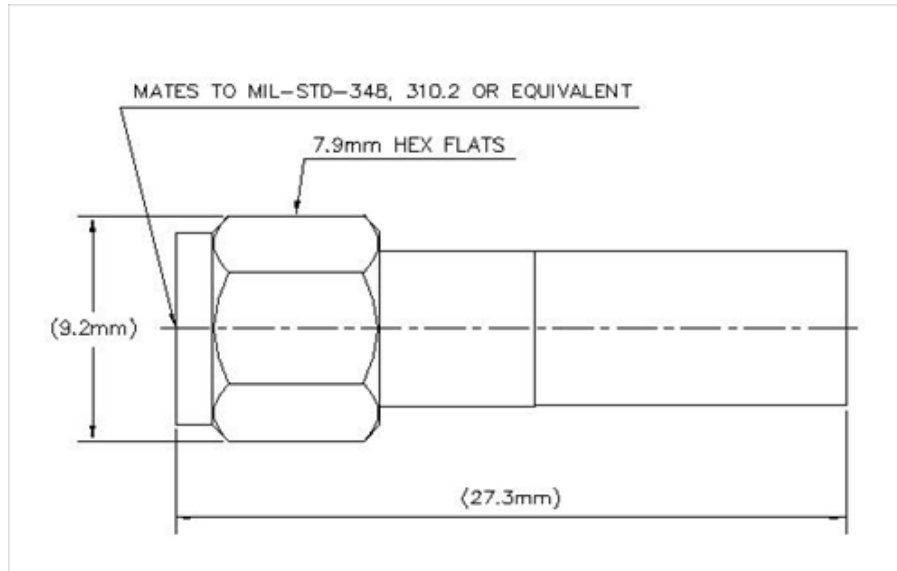
| | |
|--------------------------------------|--------------|
| Operating Frequency Band | 0 – 6000 MHz |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| RF Operating Voltage, maximum (vrms) | 353.00 V |
| dc Test Voltage | 1000 V |
| Outer Contact Resistance, maximum | 2.50 mOhm |
| Inner Contact Resistance, maximum | 3.00 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Peak Power, maximum | 2.50 kW |
| Insertion Loss, typical | 0.05 dB |

195PSM-CR

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Outline Drawing



Mechanical Specifications

| | |
|-------------------------------------|-----------------------|
| Outer Contact Plating | Trimetal |
| Inner Contact Plating | Gold |
| Outer Contact Attachment Method | Crimp |
| Inner Contact Attachment Method | Solder |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-15:9.5 |
| Connector Retention Tensile Force | 134 N 30 lbf |
| Connector Retention Torque | 0.17 N-m 0.13 ft lb |
| Coupling Nut Proof Torque | 1.70 N-m 1.25 ft lb |
| Coupling Nut Proof Torque Method | IEC 61169-15:9.3.6 |
| Coupling Nut Retention Force | 180.00 N 40.47 lbf |
| Coupling Nut Retention Force Method | IEC 61169-15:9.3.11 |

Dimensions

| | |
|--------------|--------------------|
| Nominal Size | 0.195 in |
| Diameter | 9.15 mm 0.36 in |
| Length | 27.32 mm 1.08 in |
| Weight | 5.31 g 0.01 lb |
| Width | 9.15 mm 0.36 in |

Environmental Specifications

| | |
|-----------------------|---------------------------------------|
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Storage Temperature | -65 °C to +125 °C (-85 °F to +257 °F) |

195PSM-CR



| | |
|------------------------------------|----------------------|
| Water Jetting Test Mating | Mated |
| Water Jetting Test Method | IEC 60529:2001, IP65 |
| Mechanical Shock Test Method | IEC 60068-2-27 |
| Climatic Sequence Test Method | IEC 60068-1 |
| Damp Heat Steady State Test Method | IEC 60068-2-3 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |
| Corrosion Test Method | IEC 60068-2-11 |

Standard Conditions

| | |
|--|-----------------|
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C 212 °F |

Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 0–3000 MHz | 1.05 | 31.90 |
| 3000–6000 MHz | 1.08 | 28.00 |

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2011/65/EU | Compliant by Exemption |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |



* Footnotes

Insertion Loss, typical 0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

195APSR-CR

SMA Male Right Angle for CNT-195 braided cable

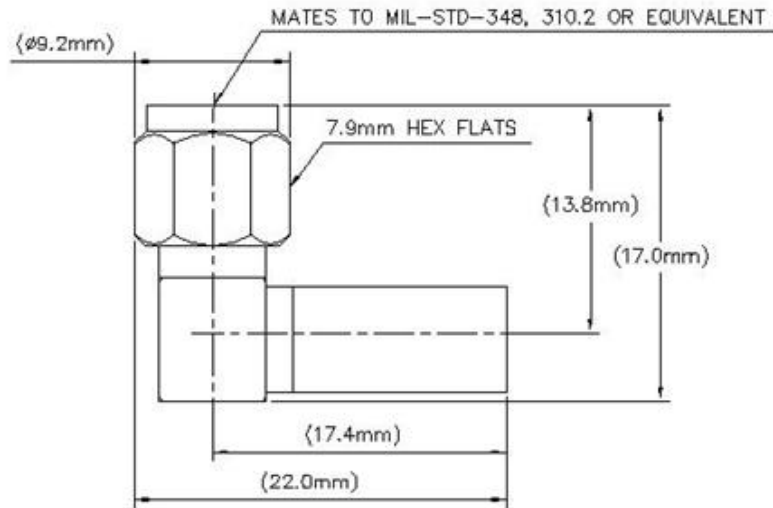
General Specifications

| | |
|------------|-------------|
| Interface | SMA Male |
| Body Style | Right angle |
| Brand | CNT® |

Electrical Specifications

| | |
|--------------------------------------|-------------------|
| Operating Frequency Band | 0 – 6000 MHz |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| RF Operating Voltage, maximum (vrms) | 353.00 V |
| dc Test Voltage | 1000 V |
| Outer Contact Resistance, maximum | 2.50 mOhm |
| Inner Contact Resistance, maximum | 3.00 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Average Power | 150.0 W @ 900 MHz |
| Peak Power, maximum | 2.50 kW |
| Insertion Loss, typical | 0.05 dB |

Outline Drawing



Mechanical Specifications

| | |
|-------------------------------------|-----------------------|
| Outer Contact Plating | Trimetal |
| Inner Contact Plating | Gold |
| Outer Contact Attachment Method | Crimp |
| Inner Contact Attachment Method | Solder |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-15:9.5 |
| Connector Retention Tensile Force | 134 N 30 lbf |
| Connector Retention Torque | 0.17 N-m 0.13 ft lb |
| Insertion Force | 22.00 N 4.95 lbf |
| Insertion Force Method | IEC 61169-15:9.3.5 |
| Pressurizable | No |
| Coupling Nut Proof Torque | 1.70 N-m 1.25 ft lb |
| Coupling Nut Proof Torque Method | IEC 61169-15:9.3.6 |
| Coupling Nut Retention Force | 180.00 N 40.47 lbf |
| Coupling Nut Retention Force Method | IEC 61169-15:9.3.11 |

Dimensions

| | |
|--------------|--------------------|
| Nominal Size | 0.195 in |
| Height | 17.00 mm 0.67 in |
| Length | 22.01 mm 0.87 in |
| Weight | 9.63 g 0.02 lb |
| Width | 7.92 mm 0.31 in |

195APSR-CR

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Environmental Specifications

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

Standard Conditions

| | |
|--|-----------------|
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C 212 °F |

Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 0-3000 MHz | 1.07 | 29.20 |

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2011/65/EU | Compliant by Exemption |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |



* Footnotes

Insertion Loss, typical 0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

CNT-195-FR

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



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

Electrical Specifications

| | |
|---------------------------------|---------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 79.7 pF/m 24.3 pF/ft |
| dc Resistance, Inner Conductor | 24.940 ohms/km 7.600 ohms/kft |
| dc Resistance, Outer Conductor | 16.080 ohms/km 4.900 ohms/kft |
| dc Test Voltage | 1500 V |
| Jacket Spark Test Voltage (rms) | 3000 V |
| Maximum Frequency | 37.90 GHz |
| Operating Frequency Band | 30 – 6000 MHz |
| Peak Power | 2.5 kW |
| Shielding Effectiveness | >90 dB |
| Velocity | 75% |

Environmental Specifications

| | |
|--------------------------|--------------------------------------|
| Installation Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Storage Temperature | -70 °C to +85 °C (-94 °F to +185 °F) |

CNT-195-FR

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General Specifications

| | |
|----------------|-----------|
| Cable Type | CNT-195 |
| Braid Coverage | 89% braid |
| Brand | CNT® |
| Packaging Type | Reel |

Mechanical Specifications

| | |
|----------------------------------|------------------------|
| Bending Moment | 0.3 N-m 0.2 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 | 7.20 | 2.20 |
| 50 MHz | 8.90 | 2.70 |
| 150 MHz | 14.24 | 4.34 |
| 220 MHz | 17.38 | 5.30 |
| 450 MHz | 26.24 | 8.00 |
| 900 MHz | 39.03 | 11.90 |
| 1500 MHz | 51.50 | 15.70 |
| 1800 MHz | 57.07 | 17.40 |
| 2000 MHz | 61.00 | 18.60 |
| 2500 MHz | 69.54 | 21.20 |
| 3000 MHz | 77.08 | 23.50 |
| 4000 MHz | 90.86 | 27.70 |
| 5000 MHz | 140.96 | 32.00 |
| 6000 MHz | 117.10 | 35.70 |

* Values typical, guaranteed within 5%

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2011/65/EU | Compliant |
| China RoHS SJ/T 11364-2006 | Below Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |





CNT-195-P

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

Construction Materials

| | |
|--------------------------|--------------------|
| Jacket Color | White |
| Jacket Material | Fire retardant PVC |
| Braid Material | Tinned copper |
| Shield Tape Material | Aluminum |
| Dielectric Material | Foam FEP |
| Inner Conductor Material | Copper |

Dimensions

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

Electrical Specifications

| | |
|---------------------------------|---------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 87.2 pF/m 26.6 pF/ft |
| dc Resistance, Inner Conductor | 25.400 ohms/km 7.740 ohms/kft |
| dc Resistance, Outer Conductor | 16.080 ohms/km 4.900 ohms/kft |
| dc Test Voltage | 2000 V |
| Jacket Spark Test Voltage (rms) | 2000 V |
| Maximum Frequency | 37.90 GHz |
| Operating Frequency Band | 30 – 6000 MHz |
| Peak Power | 2.5 kW |
| Shielding Effectiveness | >90 dB |
| Velocity | 75% |

Environmental Specifications

| | |
|--------------------------|--------------------------------------|
| Installation Temperature | -40 °C to +75 °C (-40 °F to +167 °F) |
| Operating Temperature | -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 |
| Brand | CNT® |
| Packaging Type | Reel |

Mechanical Specifications

| | |
|----------------|---------------------|
| Bending Moment | 0.1 N-m 0.1 ft lb |
|----------------|---------------------|

CNT-195P



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 | 7.20 | 2.20 |
| 50 MHz | 8.90 | 2.70 |
| 150 MHz | 14.24 | 4.34 |
| 220 MHz | 17.40 | 5.30 |
| 450 MHz | 26.24 | 8.00 |
| 900 MHz | 41.00 | 12.50 |
| 1800 MHz | 64.30 | 19.60 |
| 2500 MHz | 77.41 | 23.60 |

* Values typical, guaranteed within 5%

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
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