Type N Male for CNT-195 braided cable

Product Classification

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Braided cable connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Brand</td>
<td>CNT®</td>
</tr>
</tbody>
</table>

General Specifications

<table>
<thead>
<tr>
<th>Body Style</th>
<th>Straight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Contact Attachment Method</td>
<td>Solder</td>
</tr>
<tr>
<td>Inner Contact Plating</td>
<td>Silver</td>
</tr>
<tr>
<td>Interface</td>
<td>N Male</td>
</tr>
<tr>
<td>Outer Contact Attachment Method</td>
<td>Crimp</td>
</tr>
<tr>
<td>Outer Contact Plating</td>
<td>Trimetal</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Width</th>
<th>20.62 mm</th>
<th>0.812 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>33.81 mm</td>
<td>1.331 in</td>
</tr>
<tr>
<td>Diameter</td>
<td>22.35 mm</td>
<td>0.88 in</td>
</tr>
<tr>
<td>Nominal Size</td>
<td>0.195 in</td>
<td></td>
</tr>
</tbody>
</table>
Electrical Specifications

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

### VSWR/Return Loss

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–3000 MHz</td>
<td>1.058</td>
<td>31.01</td>
</tr>
<tr>
<td>3000–6000 MHz</td>
<td>1.173</td>
<td>21.99</td>
</tr>
</tbody>
</table>

### Mechanical Specifications

- **Connector Retention Tensile Force**: 134 N | 30.124 lbf
- **Connector Retention Torque**: 0.17 N-m | 1.505 in lb
Coupling Nut Proof Torque | 1.7 N·m | 15.046 in lb
Coupling Nut Proof Torque Method | IEC 61169-16:9.3.6
Coupling Nut Retention Force | 450 N | 101.164 lbf
Coupling Nut Retention Force Method | IEC 61169-16:9.3.11
Interface Durability | 500 cycles
Interface Durability Method | IEC 61169-16:9.5
Mechanical Shock Test Method | IEC 60068-2-27

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)
Attenuation, Ambient Temperature | 20 °C | 68 °F
Average Power, Ambient Temperature | 40 °C | 104 °F
Average Power, Inner Conductor Temperature | 100 °C | 212 °F
Climatic Sequence Test Method | IEC 60068-1
Corrosion Test Method | IEC 60068-2-11
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
Water Jetting Test Mating | Mated
Water Jetting Test Method | IEC 60529:2001, IP65

Packaging and Weights

Weight, net | 40.32 g | 0.089 lb

Regulatory Compliance/Certifications

Agency | Classification
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 www.commscope.com/ProductCompliance
ROHS | Compliant
* Footnotes

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