SMA Male for CNT-195 braided cable

Product Classification

Product Type: Braided cable connector
Product Brand: CNT®

General Specifications

Body Style: Straight
Inner Contact Attachment Method: Solder
Inner Contact Plating: Gold
Interface: SMA Male
Outer Contact Attachment Method: Crimp
Outer Contact Plating: Trimetal

Dimensions

Width: 9.15 mm | 0.36 in
Length: 24.87 mm | 0.979 in
Diameter: 9.15 mm | 0.36 in
Nominal Size: 0.195 in
Outline Drawing

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: 3 mOhm
Insulation Resistance, minimum: 5000 MOhm
Operating Frequency Band: 0 – 6000 MHz
Outer Contact Resistance, maximum: 2.5 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>1.05</td>
<td>34</td>
</tr>
<tr>
<td>3000–6000 MHz</td>
<td>1.08</td>
<td>29</td>
</tr>
</tbody>
</table>

Mechanical Specifications
<table>
<thead>
<tr>
<th>Connector Retention Tensile Force</th>
<th>134 N</th>
<th>30.124 lbf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Retention Torque</td>
<td>0.17 N-m</td>
<td>1.505 in lb</td>
</tr>
<tr>
<td>Coupling Nut Proof Torque</td>
<td>1.7 N-m</td>
<td>15.046 in lb</td>
</tr>
<tr>
<td>Coupling Nut Proof Torque Method</td>
<td>IEC 61169-15:9.3.6</td>
<td></td>
</tr>
<tr>
<td>Coupling Nut Retention Force</td>
<td>180 N</td>
<td>40.466 lbf</td>
</tr>
<tr>
<td>Coupling Nut Retention Force Method</td>
<td>IEC 61169-15:9.3.11</td>
<td></td>
</tr>
<tr>
<td>Interface Durability</td>
<td>500 cycles</td>
<td></td>
</tr>
<tr>
<td>Interface Durability Method</td>
<td>IEC 61169-15:9.5</td>
<td></td>
</tr>
<tr>
<td>Mechanical Shock Test Method</td>
<td>IEC 60068-2-27</td>
<td></td>
</tr>
</tbody>
</table>

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
- Thermal Shock Test Method: IEC 60068-2-14
- Vibration Test Method: IEC 60068-2-6
- Water Jetting Test Mating: Mated

Packaging and Weights

- Weight, net: 4.61 g | 0.01 lb

Regulatory Compliance/Certifications

- 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)