QMA Male for CNT-195 braided cable

Product Classification

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

General Specifications

| Interface | QMA Male |
| Body Style | Straight |

Electrical Specifications

<table>
<thead>
<tr>
<th>Operating Frequency Band</th>
<th>0 – 6000 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Power at Frequency</td>
<td>150.0 W @ 900 MHz</td>
</tr>
<tr>
<td>Cable Impedance</td>
<td>50 ohm</td>
</tr>
<tr>
<td>Connector Impedance</td>
<td>50 ohm</td>
</tr>
<tr>
<td>RF Operating Voltage, maximum (v rms)</td>
<td>353.00 V</td>
</tr>
<tr>
<td>dc Test Voltage</td>
<td>1000 V</td>
</tr>
<tr>
<td>Outer Contact Resistance, maximum</td>
<td>2.50 mOhm</td>
</tr>
<tr>
<td>Inner Contact Resistance, maximum</td>
<td>3.00 mOhm</td>
</tr>
<tr>
<td>Insulation Resistance, minimum</td>
<td>5000 MOhm</td>
</tr>
<tr>
<td>Peak Power, maximum</td>
<td>2.50 kW</td>
</tr>
<tr>
<td>Insertion Loss, typical</td>
<td>0.05 dB</td>
</tr>
</tbody>
</table>
Outline Drawing

Mechanical Specifications

- **Outer Contact Attachment Method**: Crimp
- **Outer Contact Plating**: Trimetal
- **Inner Contact Plating**: Gold
- **Inner Contact Attachment Method**: Solder
- **Interface Durability**: 100 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

Dimensions

- **Nominal Size**: 0.195 in
- **Diameter**: 27.15 mm | 1.07 in
- **Length**: 10.50 mm | 0.41 in
- **Weight**: 15.01 g | 0.03 lb
- **Width**: 10.50 mm | 0.41 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)

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

<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>1.07</td>
<td>29.00</td>
</tr>
<tr>
<td>3000–6000 MHz</td>
<td>1.14</td>
<td>23.70</td>
</tr>
</tbody>
</table>

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)