BNC Male for CNT-195 braided cable

Product Classification

Brand
CNT®

Product Type
Braided cable connector

General Specifications

Interface
BNC Male

Body Style
Straight

Electrical Specifications

Operating Frequency Band
0 – 6000 MHz

Average Power at Frequency
150.0 W @ 900 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
1.00 mOhm

Inner Contact Resistance, maximum
2.50 mOhm

Insulation Resistance, minimum
5000 MOhm

Peak Power, maximum
2.50 kW

Insertion Loss, typical
0.05 dB
Outline Drawing

Mechanical Specifications

**Outer Contact Attachment Method**  Crimp
**Outer Contact Plating**  Trimetal
**Inner Contact Plating**  Gold
**Inner Contact Attachment Method**  Solder
**Interface Durability**  500 cycles
**Interface Durability Method**  IEC 61169-8:9.5
**Connector Retention Tensile Force**  134 N  |  30 lbf
**Connector Retention Torque**  0.17 N-m  |  0.13 ft lb
**Insertion Force**  15.00 N  |  3.37 lbf
**Insertion Force Method**  IEC 61169-8:9.3.5
**Pressurizable**  No

Dimensions

**Nominal Size**  0.195 in
**Diameter**  14.00 mm  |  0.55 in
**Length**  30.06 mm  |  1.18 in
**Weight**  31.00 g  |  0.07 lb
**Width**  14.00 mm  |  0.55 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>30.00</td>
</tr>
<tr>
<td>3000–6000 MHz</td>
<td>1.22</td>
<td>20.10</td>
</tr>
</tbody>
</table>

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS 2011/65/EU</td>
<td>Compliant by Exemption</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>China RoHS SJ/T 11364-2014</td>
<td>Above Maximum Concentration Value (MCV)</td>
</tr>
</tbody>
</table>

* Footnotes

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