**HSR100**

**Construction**

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
<th>Diameter (Inch/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Conductor</td>
<td>Copper Clad Steel</td>
<td>0.018 0.46</td>
</tr>
<tr>
<td>Dielectric</td>
<td>Solid PE</td>
<td>0.060 1.52</td>
</tr>
<tr>
<td>First Shield</td>
<td>Aluminum Foil (Unbonded)</td>
<td>0.065 1.65</td>
</tr>
<tr>
<td>Second Shield</td>
<td>Tinned Copper wire Braid</td>
<td>0.083 2.11</td>
</tr>
<tr>
<td>Jacket</td>
<td>PVC or PE (Black)</td>
<td>0.110 2.79</td>
</tr>
</tbody>
</table>

**Electrical Characteristics**

- Impedance (Ω): 16.7
- Inner Conductor DCR (Ω/km): 9.0
- Outer Shield DCR (Ω/km): 31.2
- Voltage withstand (Volts DC): 500.0
- Spark Test (VRMS): 50±3
- Capacitance (pF/m): 101.1
- Velocity of Propagation (%): 66.0
- Return Loss (dB): ≥ 20
- Screening Effectiveness (dB): ≥ 90
- Operating Temp Range (ºC): -40 to +85

**Attenuation ( @ 20 ºC )**

<table>
<thead>
<tr>
<th>Frequency(MHz)</th>
<th>Max Attenuation (dB/100ft)</th>
<th>Max Attenuation (dB/100m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>3.9</td>
<td>12.9</td>
</tr>
<tr>
<td>50</td>
<td>5.1</td>
<td>16.7</td>
</tr>
<tr>
<td>150</td>
<td>9.0</td>
<td>29.4</td>
</tr>
<tr>
<td>220</td>
<td>10.9</td>
<td>35.8</td>
</tr>
<tr>
<td>450</td>
<td>15.8</td>
<td>51.9</td>
</tr>
<tr>
<td>900</td>
<td>22.8</td>
<td>74.9</td>
</tr>
<tr>
<td>1500</td>
<td>30.1</td>
<td>98.7</td>
</tr>
<tr>
<td>1800</td>
<td>33.2</td>
<td>109.0</td>
</tr>
<tr>
<td>2000</td>
<td>35.2</td>
<td>115.5</td>
</tr>
<tr>
<td>2500</td>
<td>39.8</td>
<td>130.6</td>
</tr>
<tr>
<td>5800</td>
<td>64.1</td>
<td>210.3</td>
</tr>
</tbody>
</table>

For more information, please visit www.hongsencable.com