CT Series Coaxial Cables

CT 165

Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner conductor</td>
<td>Bare copper</td>
<td>Φ1.63 mm</td>
</tr>
<tr>
<td>Dielectric</td>
<td>Foam PE</td>
<td>Φ7.20 mm</td>
</tr>
<tr>
<td>Outer conductor (shield 1)</td>
<td>Copper Foil</td>
<td>Φ7.39 mm</td>
</tr>
<tr>
<td>Shield coverage 1</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Outer conductor (shield 2)</td>
<td>Bare copper braid</td>
<td>96x0.10 mm</td>
</tr>
<tr>
<td>Shield coverage 2</td>
<td></td>
<td>55%</td>
</tr>
<tr>
<td>Sheath</td>
<td>PVC/LSOH</td>
<td>Φ10.10 mm</td>
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</tbody>
</table>

Electrical & Mechanical Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>75±5 Ohm</td>
</tr>
<tr>
<td>Nominal capacitance</td>
<td>50 pF/m</td>
</tr>
<tr>
<td>Velocity of propagation</td>
<td>85%</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>&gt;5000 Mohm.Km</td>
</tr>
<tr>
<td>Inner conductor resistance</td>
<td>8.45 Ohm/Km</td>
</tr>
<tr>
<td>Outer conductor resistance</td>
<td>- Ohm/Km</td>
</tr>
<tr>
<td>Rated temperature</td>
<td>70°C</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>30 V</td>
</tr>
<tr>
<td>Cable weight (approx.)</td>
<td>116 kg/km</td>
</tr>
<tr>
<td>Screening effectiveness</td>
<td>≥75 dB (30-1000MHz)</td>
</tr>
<tr>
<td></td>
<td>&gt;65 dB (1000-2150MHz)</td>
</tr>
</tbody>
</table>

Attenuation

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>3.0</td>
<td>0.91</td>
</tr>
<tr>
<td>100</td>
<td>4.0</td>
<td>1.22</td>
</tr>
<tr>
<td>200</td>
<td>6.0</td>
<td>1.83</td>
</tr>
<tr>
<td>460</td>
<td>9.0</td>
<td>2.74</td>
</tr>
<tr>
<td>860</td>
<td>12.5</td>
<td>3.81</td>
</tr>
<tr>
<td>1000</td>
<td>13.5</td>
<td>4.12</td>
</tr>
<tr>
<td>1750</td>
<td>19.0</td>
<td>5.79</td>
</tr>
<tr>
<td>2150</td>
<td>22.0</td>
<td>6.71</td>
</tr>
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Return Loss

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Return Loss</th>
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</thead>
<tbody>
<tr>
<td>5-470 MHz</td>
<td>&gt;23dB</td>
</tr>
<tr>
<td>470-860 MHz</td>
<td>≥20dB</td>
</tr>
<tr>
<td>860-2150 MHz</td>
<td>≥18dB</td>
</tr>
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</table>