Audio Control & Instrumentation Cable
2C to 8C, 20AWG Unscreened,
HFFR/LSZH Sheath

C1732, C1734, C1736, C1753, C1738, C1740

Applications
Multi-Conductor cables suitable for Audio, Control, Instrumentation and Building Management Systems (BMS)

Cross Section Drawing

Design

<table>
<thead>
<tr>
<th>Unit</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>N x Bare Copper wire, 20AWG flexible</td>
</tr>
<tr>
<td>Insulation</td>
<td>HFFR</td>
</tr>
<tr>
<td></td>
<td>Core 1: Black</td>
</tr>
<tr>
<td></td>
<td>Core 2: Red</td>
</tr>
<tr>
<td></td>
<td>Core 3: White</td>
</tr>
<tr>
<td></td>
<td>Core 4: Green</td>
</tr>
<tr>
<td></td>
<td>Core 5: Brown</td>
</tr>
<tr>
<td></td>
<td>Core 6: Blue</td>
</tr>
<tr>
<td></td>
<td>Core 7: Orange</td>
</tr>
<tr>
<td></td>
<td>Core 8: Yellow</td>
</tr>
<tr>
<td>Rip Cord</td>
<td>Nylon Yarn</td>
</tr>
<tr>
<td>Sheath Material</td>
<td>Flame-Retardant Halogen Free (HFFR/LSZH)</td>
</tr>
<tr>
<td></td>
<td>Standard colour: Purple</td>
</tr>
<tr>
<td>Standard Put Up Length</td>
<td>305 meters</td>
</tr>
</tbody>
</table>

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.
Audio Control & Instrumentation Cable
2C to 8C, 20AWG Unscreened,
HFFR/LSZH Sheath

C1732, C1734, C1736, C1753, C1738, C1740

Physical Characteristics

<table>
<thead>
<tr>
<th>Part Number</th>
<th>C1732</th>
<th>C1734</th>
<th>C1736</th>
<th>C1753</th>
<th>C1738</th>
<th>C1740</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of cores x 20AWG (7 x 28)</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Nom. Diameter Conductor (mm)</td>
<td></td>
<td></td>
<td></td>
<td>0.93</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nom. Radial Thickness Insulation (mm)</td>
<td></td>
<td></td>
<td></td>
<td>0.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nom. Radial Thickness Sheath (mm)</td>
<td></td>
<td></td>
<td></td>
<td>0.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nom. Overall Diameter (mm)</td>
<td>4.3</td>
<td>4.5</td>
<td>4.9</td>
<td>5.4</td>
<td>5.8</td>
<td>6.3</td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>-25 / +75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Recommended Pulling Tension (N)</td>
<td>112</td>
<td>168</td>
<td>224</td>
<td>280</td>
<td>336</td>
<td>448</td>
</tr>
<tr>
<td>Min. Bend Radius (install) (mm)</td>
<td>43</td>
<td>45</td>
<td>49</td>
<td>54</td>
<td>58</td>
<td>63</td>
</tr>
<tr>
<td>Nominal Cable Weight (kg/km)</td>
<td>27.7</td>
<td>34.5</td>
<td>42.5</td>
<td>50.8</td>
<td>59.1</td>
<td>74.4</td>
</tr>
</tbody>
</table>

Electrical Characteristics

<table>
<thead>
<tr>
<th>Part Number</th>
<th>C1732</th>
<th>C1734</th>
<th>C1736</th>
<th>C1753</th>
<th>C1738</th>
<th>C1740</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of cores x 20AWG (7 x 28)</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Max. DC Resistance Conductor (Ω/km)</td>
<td></td>
<td></td>
<td></td>
<td>35.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacitance conductor to conductor (pF/m)</td>
<td>65</td>
<td>65</td>
<td>68</td>
<td>70</td>
<td>70</td>
<td>70</td>
</tr>
<tr>
<td>Nominal Inductance (µH/m)</td>
<td></td>
<td></td>
<td></td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Recom. Current @ 25°C (Amps)</td>
<td>3.75</td>
<td>3.75</td>
<td>3</td>
<td>2.6</td>
<td>2.6</td>
<td>2.6</td>
</tr>
<tr>
<td>Max. Operating Voltage (Vrms)</td>
<td></td>
<td></td>
<td></td>
<td>300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reference Standards

(BS) EN 50290-2
IEC 60228
IEC 60754-1 & 2
IEC 61034, IEC 60332-3-24
RoHS directives