H07V-K

Application and Description

These are not suitable to be installed for laying in tubes, under and surface mounting of plaster and also in closed installation conduits. These are not allowed to install for direct laying on cable trays, channel or tanks. These types are permitted for the inner wiring of equipment, distributor and switchboards and also for protective laying to the lightings with a nominal voltage up to 1000 V alternating current or up to 750 V direct current against earth.

Standard and Approval


Cable Construction

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Class-5
- Special PVC TI1 core insulation
- Cores to VDE-0293 colors on chart

Technical Characteristics

- Working voltage: 450/750V
- Test voltage: 2500 volts
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 12.5 x Ø
- Flexing temperature: -5°C to +70°C
- Static temperature: -30°C to +80°C
- Short circuit temperature: +160°C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km
## Cable Parameter

<table>
<thead>
<tr>
<th>AWG</th>
<th>No. of Cores x Nominal Cross Sectional Area # x mm²</th>
<th>Nominal Thickness of Insulation mm</th>
<th>Nominal Overall Diameter mm</th>
<th>Nominal Copper Weight kg/Km</th>
<th>Nominal Weight kg/Km</th>
</tr>
</thead>
<tbody>
<tr>
<td>16(30/30)</td>
<td>1 x 1.5</td>
<td>0,7</td>
<td>3.1</td>
<td>14.4</td>
<td>20</td>
</tr>
<tr>
<td>14(50/30)</td>
<td>1 x 2.5</td>
<td>0,8</td>
<td>3.6</td>
<td>24.0</td>
<td>31</td>
</tr>
<tr>
<td>12(56/28)</td>
<td>1 x 4</td>
<td>0,8</td>
<td>4.3</td>
<td>38.0</td>
<td>48</td>
</tr>
<tr>
<td>10(84/28)</td>
<td>1 x 6</td>
<td>0,8</td>
<td>4.9</td>
<td>58.0</td>
<td>69</td>
</tr>
<tr>
<td>8(80/26)</td>
<td>1 x 10</td>
<td>1,0</td>
<td>6.4</td>
<td>96.0</td>
<td>121</td>
</tr>
<tr>
<td>6(128/26)</td>
<td>1 x 16</td>
<td>1,0</td>
<td>8.1</td>
<td>154.0</td>
<td>211</td>
</tr>
<tr>
<td>4(200/26)</td>
<td>1 x 25</td>
<td>1,2</td>
<td>9.8</td>
<td>240.0</td>
<td>303</td>
</tr>
<tr>
<td>2 (280/26)</td>
<td>1 x 35</td>
<td>1,2</td>
<td>11.1</td>
<td>336.0</td>
<td>417</td>
</tr>
<tr>
<td>1 (400/26)</td>
<td>1 x 50</td>
<td>1,4</td>
<td>13.1</td>
<td>480.0</td>
<td>539</td>
</tr>
<tr>
<td>2/0 (356/24)</td>
<td>1 x 70</td>
<td>1,4</td>
<td>15.5</td>
<td>672.0</td>
<td>730</td>
</tr>
<tr>
<td>3/0 (485/24)</td>
<td>1 x 95</td>
<td>1,6</td>
<td>17.2</td>
<td>912.0</td>
<td>900</td>
</tr>
<tr>
<td>4/0 (614/24)</td>
<td>1 x 120</td>
<td>1,6</td>
<td>19.7</td>
<td>1152.0</td>
<td>1135</td>
</tr>
<tr>
<td>300 MCM (765/24)</td>
<td>1 x 150</td>
<td>1,8</td>
<td>21.3</td>
<td>1440.0</td>
<td>1410</td>
</tr>
<tr>
<td>350 MCM (944/24)</td>
<td>1 x 185</td>
<td>2,0</td>
<td>23.4</td>
<td>1776.0</td>
<td>1845</td>
</tr>
<tr>
<td>500MCM(1225/24)</td>
<td>1 x 240</td>
<td>2,2</td>
<td>27.1</td>
<td>2304.0</td>
<td>2270</td>
</tr>
</tbody>
</table>