Solar Cables

Single core cables, for photovoltaic and solar system use, elastomeric compound insulated and sheathed. Flame retardant, halogen free and low smoke flexible cables for fixed laying, lifetime testing 20,000 h/120°C

Characteristics:

Applications: Cable suitable for the interconnection of the various elements of photovoltaic systems
Suitable for fixed installation outside and inside without protection or inside pipes, ducts or similar closed systems
High resistance against Ozone, U V rays, oils, moisture and weather inclemencies
Suitable for use at an ambient temperature up to 90°C (120°C overland) and tested according to:
TUV-Rheinland 2 pfg 1169/08.2007 standard
The estimated lifetime of these cables is at least 25 years

Sheath colour : Black, red
Operating temperature : -40°C ÷ 90°C on the conductor
Overload temperature : 120°C on the conductor
Expected lifetime : > 25 Years
Rated voltage : 1,800 V dc
Maximum temperature in case of short circuit : 250°C on the conductor (maximum duration 5 s)
Minimum bending radius : 4 × outer diameter of the cable
Minimum installation temperature : -25°C
Maximum laying stress during installation : 50 N / mm²

Dimension Table

<table>
<thead>
<tr>
<th>Size</th>
<th>Max. Ø of Copper Wires</th>
<th>Insulation Thickness</th>
<th>Sheath Thickness</th>
<th>Outer Diameter</th>
<th>Max. Cond. Resistance at 20°C</th>
<th>Indicative Cable weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm²</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>ohms / km</td>
<td>kg / km</td>
</tr>
<tr>
<td>1 × 4</td>
<td>031</td>
<td>0.7</td>
<td>0.8</td>
<td>5.5</td>
<td>5.09</td>
<td>62</td>
</tr>
<tr>
<td>1 × 6</td>
<td></td>
<td></td>
<td>0.9</td>
<td>6.3</td>
<td>3.39</td>
<td>85</td>
</tr>
<tr>
<td>1 × 10</td>
<td>0.41</td>
<td></td>
<td>1</td>
<td>7.5</td>
<td>1.95</td>
<td>135</td>
</tr>
<tr>
<td>1 × 16</td>
<td></td>
<td></td>
<td></td>
<td>8.5</td>
<td>1.24</td>
<td>200</td>
</tr>
</tbody>
</table>

Part Number Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable, Solar, Black, 4 mm, 100 M</td>
<td>CS0001A100</td>
</tr>
<tr>
<td>Cable, Solar, Black, 6 mm, 100 M</td>
<td>CS0002A100</td>
</tr>
</tbody>
</table>

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