The new generation of electron beam cross-linked solar cables with reduced diameters - TÜV type approved

Product Description

Reduced outer diameters enable space and weight saving installation; Reduction of flame propagation as well as of toxic combustion gases in the event of fire; Robust against mechanical impacts; Colour-coding of the core insulation simplifies the differentiation of the polarity during installation; Exact quantity control during installation by meter marking on the cable sheath

Application range

- For the cabling between the solar modules and as an extension cable between the individual module strings or DC/AC inverter
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks
- For the cabling of flexible or building-integrated photovoltaic systems

Benefits

- Reduced outer diameters enable space and weight saving installation
- Reduction of flame propagation as well as of toxic combustion gases in the event of fire
- Robust against mechanical impacts
- Colour-coding of the core insulation simplifies the differentiation of the polarity during installation
- Exact quantity control during installation by meter marking on the cable sheath

Design

- Conductor: fine-wire tinned-copper strands
- Core insulation: electron beam cross-linked copolymer
- Colour of core insulation: white, red or blue
- Outer sheath: electron beam cross-linked copolymer
- Outer sheath colour: black
ÖLFLEX® SOLAR XLR-R

Approvals

- TÜV Type approved (2PfG 1169/08.07)
- Halogen-free according to EN 50267-2-1/-2
- Ozone-resistant according to EN 50396
- Weather/UV-resistant acc. to HD 605/A1
- Acid and alkali-resistant acc. EN 60811-2-1

Product features

- Excellent weather, temperature and UV-resistance
- Good notch and abrasion resistance
- Good heat pressure resistance
- Halogen-free and flame-retardant
- XLR-R = X-Linked Radiated-Reduced Proven electron beam cross-linked quality

Technical Data

Approvals
PV1-F (TÜV type approved according to 2 PfG 1169/08.2007)

Conductor stranding
Fine wire according to VDE 0295, class 5/IEC 60228 class 5

Minimum bending radius
Fixed installation: 4 x outer diameter

Nominal voltage
AC U0/U : 600/1000 V DC U0/U : 900/1500 V Max. permissible operating voltage: DC 1.8 kV (Conductor-conductor, non earthed system)

Test voltage
AC 6500 V

Current rating
Im compliance with TÜV requirements spec. 2 PfG 1169/08.2007 table 1

Temperature range
-40°C to +120°C max. conductor temperature based on EN 60216-1 Ambient temperature range according to TÜV 2 PfG 1169/08.2007: -40°C to +90°C

Article List

<table>
<thead>
<tr>
<th>Part number</th>
<th>Conductor cross-section (mm²)</th>
<th>Outer diameter (mm)</th>
<th>Copper index (kg/km)</th>
<th>Weight (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0023175</td>
<td>1.5</td>
<td>4.4</td>
<td>14.4</td>
<td>34</td>
</tr>
<tr>
<td>0023176</td>
<td>2.5</td>
<td>4.8</td>
<td>24.0</td>
<td>46</td>
</tr>
</tbody>
</table>

ÖLFLEX® SOLAR XLR-R Core insulation: white / Outer sheath: black
### Product Information

**ÖLFLEX® SOLAR XLR-R**

Valid: 07.02.2012

<table>
<thead>
<tr>
<th>Code</th>
<th>Cross Section (mm²)</th>
<th>Diameter (mm)</th>
<th>Area (mm²)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0023177</td>
<td>4</td>
<td>5.2</td>
<td>38.4</td>
<td>63</td>
</tr>
<tr>
<td>0023178</td>
<td>6</td>
<td>5.8</td>
<td>57.6</td>
<td>86</td>
</tr>
<tr>
<td>0023179</td>
<td>10</td>
<td>7.0</td>
<td>96.0</td>
<td>132</td>
</tr>
<tr>
<td>0023180</td>
<td>16</td>
<td>8.3</td>
<td>153.6</td>
<td>197</td>
</tr>
</tbody>
</table>

Core insulation: red / Outer sheath: black

<table>
<thead>
<tr>
<th>Code</th>
<th>Cross Section (mm²)</th>
<th>Diameter (mm)</th>
<th>Area (mm²)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0023186</td>
<td>1.5</td>
<td>4.4</td>
<td></td>
<td>34</td>
</tr>
<tr>
<td>0023187</td>
<td>2.5</td>
<td>4.8</td>
<td>24.0</td>
<td>46</td>
</tr>
<tr>
<td>0023188</td>
<td>4</td>
<td>5.2</td>
<td>38.4</td>
<td>63</td>
</tr>
<tr>
<td>0023189</td>
<td>6</td>
<td>5.8</td>
<td>57.6</td>
<td>86</td>
</tr>
<tr>
<td>0023190</td>
<td>10</td>
<td>7.0</td>
<td>96.0</td>
<td>132</td>
</tr>
<tr>
<td>0023191</td>
<td>16</td>
<td>8.3</td>
<td>153.6</td>
<td>197</td>
</tr>
</tbody>
</table>

Core insulation: blue / Outer sheath: black

<table>
<thead>
<tr>
<th>Code</th>
<th>Cross Section (mm²)</th>
<th>Diameter (mm)</th>
<th>Area (mm²)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0023192</td>
<td>1.5</td>
<td>4.4</td>
<td>14.4</td>
<td>34</td>
</tr>
<tr>
<td>0023193</td>
<td>2.5</td>
<td>4.8</td>
<td>24.0</td>
<td>46</td>
</tr>
<tr>
<td>0023194</td>
<td>4</td>
<td>5.2</td>
<td>38.4</td>
<td>63</td>
</tr>
<tr>
<td>0023195</td>
<td>6</td>
<td>5.8</td>
<td>57.6</td>
<td>86</td>
</tr>
<tr>
<td>0023196</td>
<td>10</td>
<td>7.0</td>
<td>96.0</td>
<td>132</td>
</tr>
<tr>
<td>0023197</td>
<td>16</td>
<td>8.3</td>
<td>153.6</td>
<td>197</td>
</tr>
</tbody>
</table>

**Footnote:**

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil 100 m; Drum (500; 1000) m

Photographs are not to scale and do not represent detailed images of the respective products.