Photovoltaic Wire XLPE, Type PV, 2000V
Series E5A

PRODUCT DESCRIPTION
The XLPE, Photovoltaic Wire, 2000V, consist of a fully annealed bare copper, Class B stranded conductor, covered with an abrasion, moisture, heat and sunlight resistant, flame retardant Cross-linked polyethylene..

APPLICATIONS
- Primarily used for interconnection wiring of grounded or ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

FEATURES
- Rated 90°C wet and dry
- Rated for direct burial
- Excellent moisture resistance
- Sunlight resistant

MARKETS

PRODUCT KEY

<table>
<thead>
<tr>
<th>Conductor</th>
<th>Stranding</th>
<th>Voltage</th>
<th>Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cu</td>
<td>B</td>
<td>2000V</td>
<td>XLPE</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Conductor Count</th>
<th>Single conductor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>Soft drawn bare copper, Class B stranding</td>
</tr>
<tr>
<td>AWG</td>
<td>Copper: Available in 14 AWG through 750 kcmil</td>
</tr>
<tr>
<td>Cross-linked Polyethylene (XLPE)</td>
<td>All gauges are type 600V PV/USE-2 or 1000V CSA RPVU90 or 2000V RHH/RHW-2</td>
</tr>
<tr>
<td>Color Coding</td>
<td>Black, Red, Green (other colors available upon request)</td>
</tr>
<tr>
<td>Marking</td>
<td>00000FT LS CABLE XXAWG (KCMIL) 2000V PV WIRE RHH OR RHW-2 OR 600V USE-2 90C DRY AND WET DIR BUR SUN RES (UL) -40C VW-1 (CSA) RPVU90 1000V MADE IN USA YYYY</td>
</tr>
<tr>
<td>Packaging</td>
<td>Non-returnable wood reels in a variety of lengths and dimensions</td>
</tr>
<tr>
<td>Performance</td>
<td>ASTM B8, UL® 44, UL 854, UL 4703, CSA C22.2 No. 271, IEC 61800-3-658 / NEMA WC70, UL 1581 (flame compliance)</td>
</tr>
<tr>
<td>Compliance</td>
<td>CSA FT4/IEEE 1202 (flame compliance)</td>
</tr>
<tr>
<td>Other Compliances</td>
<td>EPA 40 CFR, Part 261, OSHA, RoHS-compliant/RoHS 2-compliant REACH-compliant</td>
</tr>
</tbody>
</table>

PART NUMBERS AND PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Conductor Size</th>
<th>Stranding¹</th>
<th>Nominal Insulation Thickness in (mm)</th>
<th>Nominal Overall Diameter¹ in (mm)</th>
<th>Nominal Net Weight¹ lbs/kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESABS-1BAx009900 14</td>
<td>7</td>
<td>0.075 (1.90)</td>
<td>0.224 (5.69)</td>
<td>32 (48)</td>
<td></td>
</tr>
<tr>
<td>ESABT-1BAx009900 12</td>
<td>7</td>
<td>0.075 (1.90)</td>
<td>0.244 (6.20)</td>
<td>42 (62)</td>
<td></td>
</tr>
<tr>
<td>ESABU-1BAx009900 10</td>
<td>7</td>
<td>0.075 (1.90)</td>
<td>0.268 (6.81)</td>
<td>57 (85)</td>
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<tr>
<td>ESABV-1MAx009900 8²</td>
<td>19</td>
<td>0.085 (2.16)</td>
<td>0.326 (8.28)</td>
<td>87 (129)</td>
<td></td>
</tr>
<tr>
<td>ESABW-1BAx009900 6</td>
<td>7</td>
<td>0.085 (2.16)</td>
<td>0.363 (9.22)</td>
<td>123 (183)</td>
<td></td>
</tr>
<tr>
<td>ESABX-1BAx009900 4</td>
<td>7</td>
<td>0.085 (2.16)</td>
<td>0.406 (10.31)</td>
<td>181 (269)</td>
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</tr>
<tr>
<td>ESABY-1BAx009900 2</td>
<td>7</td>
<td>0.085 (2.16)</td>
<td>0.474 (12.04)</td>
<td>266 (396)</td>
<td></td>
</tr>
<tr>
<td>ESABZ-1BAx009900 1</td>
<td>19</td>
<td>0.105 (2.67)</td>
<td>0.538 (13.66)</td>
<td>350 (521)</td>
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</tr>
<tr>
<td>ESACA-1BAx009900 1/0</td>
<td>19</td>
<td>0.105 (2.67)</td>
<td>0.586 (14.88)</td>
<td>429 (638)</td>
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<tr>
<td>ESACB-1BAx009900 2/0</td>
<td>19</td>
<td>0.105 (2.67)</td>
<td>0.631 (16.03)</td>
<td>527 (784)</td>
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</tr>
<tr>
<td>ESACC-1BAx009900 3/0</td>
<td>19</td>
<td>0.105 (2.67)</td>
<td>0.674 (17.12)</td>
<td>647 (963)</td>
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</tr>
<tr>
<td>ESACD-1BAx009900 4/0</td>
<td>19</td>
<td>0.105 (2.67)</td>
<td>0.737 (18.72)</td>
<td>796 (1,184)</td>
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<tr>
<td>ESACE-1BAx009900 250</td>
<td>37</td>
<td>0.120 (3.05)</td>
<td>0.804 (20.42)</td>
<td>938 (1,396)</td>
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</tr>
<tr>
<td>ESACG-1BAx009900 350</td>
<td>37</td>
<td>0.120 (3.05)</td>
<td>0.907 (23.04)</td>
<td>1,257 (1,870)</td>
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<tr>
<td>ESACI-1BAx009900 500</td>
<td>37</td>
<td>0.120 (3.05)</td>
<td>1.035 (26.29)</td>
<td>1,737 (2,585)</td>
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<tr>
<td>ESACL-1BAx009900 750</td>
<td>37</td>
<td>0.135 (3.43)</td>
<td>1.244 (31.60)</td>
<td>2,620 (3,900)</td>
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</tr>
</tbody>
</table>

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.
²4AWG, Combination Unilay-Stranded, Per ASTM B787
³1 4AWG through 750kcmil, Reverse Concentric Compressed Class B, ASTM B8
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JACKET COLORS

- Replace "x" with:
  - Black = 0
  - Brown = 1
  - Red = 2
  - Orange = 3
  - Yellow = 4
  - Green = 5
  - Blue = 6
  - Purple = 7
  - Gray = 8
  - White = 9

- Multiply the magnitude of the part number by the color code for the jacket.

- X" in the part number is to be substituted based on the color of the insulation (e.g., 0=Black, 1=Brown, 2=Red, 3=Orange, 4=Yellow, 5=Green, 6=Blue, 7=Purple, 8=Gray and 9 = White )