318-Y / H05VV-F BS EN 50525-2-11 Flexible Cable

Eland Product Group: A6Y

APPLICATION
Ordinary duty PVC cable for use in domestic appliances, kitchens and offices. For use with light portable appliances such as radios, table lamps and office equipment. Generally unsuitable for outdoor use or industrial applications.

CONSTRUCTION
Conductor
Class 5 flexible copper conductor according to BS EN 60228 (previously BS 6360)

Insulation
PVC (Polyvinyl Chloride) Type TI2 according to BS EN 50363

Sheath
PVC (Polyvinyl Chloride) Type TM2 according to BS EN 50363

CABLE STANDARDS
BS EN 50525-2-11 (previously BS 6500), BASEC Approved, BS EN/IEC 60332-1-2

CHARACTERISTICS
Voltage Rating (Uo/U)
300/500V

Temperature Rating
Flexed: 5°C to 70°C

Minimum Bending Radius
Flexed: 8 x overall diameter

Core Identification
2 core: ● Blue ● Brown
3 core: ● Green/Yellow ● Blue ● Brown
4 core: ● Green/Yellow ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Brown ● Black ● Grey ● Blue

Sheath Colour
● White ● Black

The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.
### DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL THICKNESS OF INSULATION mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>A6Y020075*</td>
<td>2</td>
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<td>0.6</td>
<td>6.3</td>
<td>57</td>
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<td>6.6</td>
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<td>8.1</td>
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<td>0.8</td>
<td>9.9</td>
<td>163</td>
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<td>A6Y03040*</td>
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<td>11.3</td>
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<td>A6Y040075*</td>
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<td>0.75</td>
<td>0.6</td>
<td>7.3</td>
<td>82</td>
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<td>1</td>
<td>0.6</td>
<td>7.9</td>
<td>100</td>
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<td>A6Y04015*</td>
<td>4</td>
<td>1.5</td>
<td>0.7</td>
<td>9</td>
<td>134</td>
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<td>10.8</td>
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<td>0.6</td>
<td>8.1</td>
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<td>1</td>
<td>0.6</td>
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<td>10</td>
<td>166</td>
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</tbody>
</table>

*Eland Part No. shown above designate the sheath colour (*). For each colour either substitute * for a colour code as listed below. e.g. A6Y020075WH = 0.75mm² White

### Colour Codes

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>CODE</th>
</tr>
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<tbody>
<tr>
<td>Black</td>
<td>BK</td>
</tr>
<tr>
<td>White</td>
<td>WH</td>
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</tbody>
</table>

### CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm</th>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
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</thead>
<tbody>
<tr>
<td>0.75</td>
<td>0.21</td>
<td>26</td>
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<tr>
<td>1</td>
<td>0.21</td>
<td>19.5</td>
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<td>1.5</td>
<td>0.26</td>
<td>13.3</td>
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<td>2.5</td>
<td>0.26</td>
<td>7.98</td>
</tr>
<tr>
<td>4</td>
<td>0.31</td>
<td>4.95</td>
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The above table is in accordance with BS EN 60228 (previously BS 6380)
ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA</th>
<th>CURRENT CARRYING CAPACITY</th>
<th>MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm²</td>
<td>Amps</td>
<td>kg</td>
</tr>
<tr>
<td>Single-Phase AC</td>
<td>Three-Phase AC</td>
<td>(See Regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations)</td>
</tr>
<tr>
<td>0.75</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>1.5</td>
<td>16</td>
<td>5</td>
</tr>
<tr>
<td>2.5</td>
<td>25</td>
<td>5</td>
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<tr>
<td>4</td>
<td>32</td>
<td>5</td>
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</table>

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

Voltage Drop

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA</th>
<th>DC OR SINGLE-PHASE AC</th>
<th>THREE-PHASE AC</th>
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</thead>
<tbody>
<tr>
<td>mm²</td>
<td>mV/A/m</td>
<td>mV/A/m</td>
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<tr>
<td>0.75</td>
<td>62</td>
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<td>40</td>
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<tr>
<td>1.5</td>
<td>32</td>
<td>27</td>
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<td>2.5</td>
<td>19</td>
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<tr>
<td>4</td>
<td>12</td>
<td>10</td>
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</tbody>
</table>

Conductor operating temperature: 60°C
The above table is in accordance with Table 4F3B of the 17th Edition of IEE Wiring Regulations.

DE-RATING FACTORS

De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords

<table>
<thead>
<tr>
<th>AIR TEMPERATURE</th>
<th>35°C</th>
<th>40°C</th>
<th>45°C</th>
<th>50°C</th>
<th>55°C</th>
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</thead>
<tbody>
<tr>
<td>DE-RATING FACTOR</td>
<td>0.91</td>
<td>0.82</td>
<td>0.71</td>
<td>0.58</td>
<td>0.41</td>
</tr>
</tbody>
</table>

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.