BS 6622 XLPE MDPE 6.35/11 (12)kV Cable

Eland Product Group: A9M

APPLICATION
Power cables for power networks, underground and in cable ducting. Suitable for direct burial.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
6.35/11 (12)kV

Temperature Rating
Fixed: 0°C to +90°C

Temperature Index
0°C to +90°C

Minimum Bending Radius
12 x overall diameter. (10 x overall diameter where bends are positioned adjacent to a joint or terminations provided that the bending is carefully controlled by the use of a former)

CONSTRUCTION

Conductor
Class 2 stranded copper conductor

Conductor Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Separator
Water blocking tape

Insulation Screen
Semi-conductive XLPE (Cross-Linked Polyethylene)

Metallic Screen
Individual copper wire screen

Filler
PET (Polyethylene Terephthalate) fibres

Separator
Binding tape

Bedding
PVC (Polyvinyl Chloride)

Armour
SWA (Steel Wire Armoured)

Sheath
MDPE (Medium Density Polyethylene)

Sheath Colour
- Red
- Black

STANDARDS
BS 6622, IEC 60502-2, IEC/EN 60228

THE CABLE LAB®
AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY
Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT
We are on a journey to Net Zero.
We’ve committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we’re a signatory to the United Nations Global Compact Sustainable Development Goals.

REGULATORY COMPLIANCE
This cable meets the requirements of the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>SHEATH COLOUR</th>
<th>SLEEVES NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
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<tbody>
<tr>
<td>A9M11KV03185-BK</td>
<td>Black</td>
<td>006/120036</td>
<td>3</td>
<td>185</td>
<td>64.4</td>
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## CONDUCTORS

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MINIMUM NO. OF WIRES IN CONDUCTOR</th>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
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<tbody>
<tr>
<td></td>
<td>Circular</td>
<td>Circular Compacted</td>
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<tr>
<td></td>
<td>Cu</td>
<td>Al</td>
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## ELECTRICAL CHARACTERISTICS

Copper Conductor Dimensions and Current Carrying Capacity

<table>
<thead>
<tr>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>CONTINUOUS CURRENT RATING Amps</th>
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<tbody>
<tr>
<td></td>
<td>In Ground</td>
<td>In Ducts</td>
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<tr>
<td></td>
<td>Trefoil</td>
<td>Flat</td>
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<tr>
<td>3</td>
<td>185</td>
<td>430</td>
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## DE-RATING FACTORS

<table>
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<tr>
<th>AIR TEMPERATURE °C</th>
<th>DE-RATING FACTOR</th>
<th>GROUND TEMPERATURE °C</th>
<th>DE-RATING FACTOR</th>
<th>GROUND THERMAL RESISTIVITY km/W</th>
<th>DE-RATING FACTOR</th>
<th>DEPTH OF LAYING m</th>
<th>DE-RATING FACTOR</th>
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</thead>
<tbody>
<tr>
<td>25</td>
<td>1.00</td>
<td>10</td>
<td>1.03</td>
<td>0.9</td>
<td>1.06</td>
<td>0.80</td>
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<td>15</td>
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<tr>
<td>55</td>
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<td>40</td>
<td>0.82</td>
<td>3.0</td>
<td>0.68</td>
<td>2.50</td>
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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.