Aluminium Split Concentric BS 7870 LSZH Cable

Eland Product Group: A1S

APPLICATION
Used by distribution network operators (DNO’s) when providing the final connection to domestic properties. Also suitable for sub main distribution and particularly used within high-rise buildings and street lighting systems.

CHARACTERISTICS

Voltage Rating (Uo/U)
0.6/1kV

Temperature Rating
-15°C to +70°C

Minimum Bending Radius
8 x overall diameter

CONSTRUCTION

Conductor
Class 1 solid aluminium conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Neutral Conductor
Plain copper wires covered a blue polymeric compound

Earth Continuity Conductor
Plain copper wires

String Separator
Non-hygroscopic separator

Sheath
LSZH (Low Smoke Zero Halogen)

Sheath Colour
Orange

STANDARDS

BS EN 60228, BS 7870-3-21

Flame Retardant according to BS EN/IEC 60332-1-2

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and 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™.

UKAS ISO 17025 Accredited Testing Laboratory
ISO 14001 Environmental Management
ISO 19011 Quality Management
BS EN 50575
EN 60228
EN 60332-1-2
EN 60754-2
EN 60754-6
EN 60838-1
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1S/322/125</td>
<td>1</td>
<td>25</td>
<td>15</td>
<td>490</td>
</tr>
<tr>
<td>A1S/322/135</td>
<td>1</td>
<td>35</td>
<td>16</td>
<td>610</td>
</tr>
<tr>
<td>A1S/322/325</td>
<td>3</td>
<td>25</td>
<td>23.5</td>
<td>830</td>
</tr>
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<td>A1S/322/335</td>
<td>3</td>
<td>35</td>
<td>26</td>
<td>1030</td>
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## CONDUCTORS

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MAXIMUM DC RESISTANCE OF CONCENTRIC CONDUCTOR AT 20°C ohms/km</th>
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<tbody>
<tr>
<td></td>
<td>Phase</td>
</tr>
<tr>
<td>25</td>
<td>1.2</td>
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<tr>
<td>35</td>
<td>0.868</td>
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## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>CURRENT CARRYING CAPACITY Amps</th>
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<tbody>
<tr>
<td></td>
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<td>In Air</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>127</td>
</tr>
<tr>
<td>1</td>
<td>35</td>
<td>158</td>
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<td>3</td>
<td>25</td>
<td>97</td>
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<tr>
<td>3</td>
<td>35</td>
<td>120</td>
</tr>
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</table>

Conductor Operating Temperature: 90°C
Ambient Temperature: 30°C

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.