FXLJ-F 12/20kV Cable

Eland Product Group: B1H

APPLICATION
This cable is designed for installation hanging in poles. The cable can also be used for plowing in ground and for sea laying.

CHARACTERISTICS

Voltage Rating Uo/U
12/20 (24)kV

Temperature Rating
Minimum installation: -20°C
Maximum Operating: 90°C

Minimum Bending Radius
Fixed: 8 x overall diameter
During extraction: 12 x diameter
When plowing: 8 x overall diameter

CONSTRUCTION

Conductor
Class 2 threaded, round and compressed copper, long waterproof

Inner Semi-Conductive Layer
Insulation
XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer
Tape
Screen
Annealed copper wires

Outer Sheath
PE (Polyethylene)

Sheath Colour
● Black

STANDARDS
SS 424 14 16, HD 620 Part 10 Section M, SS 424 14 75, IEC 60228

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 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™️.
**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 DIAMETER OVER INSULATION mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1H20KV03010/10BK</td>
<td>3</td>
<td>10/10</td>
<td>4.85</td>
<td>16</td>
<td>44</td>
<td>1320</td>
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</table>

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>WIRE RESISTANCE W/km</th>
<th>SCREEN RESISTANCE W/km</th>
<th>INDUCTANCE mH/km</th>
<th>REACTANCE W/km</th>
<th>CAPACITANCE mF/km</th>
<th>CAPACITIVE CHARGE CURRENT/PHRASE A/km</th>
<th>CAPACITIVE EARTH CURRENT A/km</th>
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</thead>
<tbody>
<tr>
<td>1.83</td>
<td>2</td>
<td>0.48</td>
<td>0.15</td>
<td>0.11</td>
<td>0.4</td>
<td>1.2</td>
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**DATA FOR PREPARATION AND INSTALLATION**

<table>
<thead>
<tr>
<th>SPAN LENGTH</th>
<th>SUSPENSION AT +60ºC m</th>
<th>SUSPENSION AT -40ºC m</th>
<th>TRACTION FORCE AT 0ºC AND ICE LOAD 2KG/M kN</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1.86</td>
<td>1.06</td>
<td>6.4</td>
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<tr>
<td>60</td>
<td>2.20</td>
<td>1.29</td>
<td>7.4</td>
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<td>70</td>
<td>2.53</td>
<td>1.51</td>
<td>8.3</td>
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<td>80</td>
<td>2.86</td>
<td>1.74</td>
<td>9.1</td>
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**DATA FOR PREPARATION AND INSTALLATION**

<table>
<thead>
<tr>
<th>CABLE TEMPERATURE ºC</th>
<th>TRACTION FORCE kN</th>
<th>SUSPENSION AT 50M SPAN m</th>
<th>SUSPENSION AT 60M SPAN m</th>
<th>SUSPENSION AT 70M SPAN m</th>
<th>SUSPENSION AT 80M SPAN m</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>4.5</td>
<td>0.95</td>
<td>1.37</td>
<td>1.87</td>
<td>2.44</td>
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<td>10</td>
<td>4.6</td>
<td>0.89</td>
<td>1.29</td>
<td>1.75</td>
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<td>0</td>
<td>4.8</td>
<td>0.86</td>
<td>1.24</td>
<td>1.69</td>
<td>2.29</td>
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<td>-10</td>
<td>4.9</td>
<td>0.85</td>
<td>1.22</td>
<td>1.66</td>
<td>2.21</td>
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<tr>
<td>-15</td>
<td>5.1</td>
<td>0.83</td>
<td>1.20</td>
<td>1.63</td>
<td>2.13</td>
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</tbody>
</table>

Max conductor temperature 90º C
- Ground temperature 15 º C
- Air temperature 20 º C
- Ground heat resistivity 1.0 * K * m / W
- Laying depth 0.65 m
- Frequency 50 Hz

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.