YMz1Krvasdlwd 12/20kV Cable

Eland Product Group: B1E

APPLICATION
This cable is suitable for use in conduit and for fixed, protected installation. For installations where fire, smoke emission and toxic fume create a potential risk to life and equipment.

CHARACTERISTICS
Voltage Rating Uo/U
12/20kV

Temperature Rating
Maximum Conductor Short-Circuit Temp up to 5 sec: 250°C
Maximum Continuous Conductor Temp: 90°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION
Conductor
Class 2 Stranded Aluminium

Insulation
XLPE (Cross-Linked Polyethylene)

Screen
Copper wires and tape

Outer Sheath
LSZH (Low Smoke Zero Halogen)

Sheath Colour
Red

CABLE THIRD-PARTY ACCREDITATION
Cables are tested and accredited by KEMA Laboratories in The Netherlands to KEMA K42C-1-5

STANDARDS
Generally to HD 620-10J / NEN 3620
Fire Resistant to EN 60332-1-2, EN 60332-3-24 Cat.C

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 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™.

ISO/IEC 17025 Accredited Testing Laboratory
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL CROSS SECTIONAL AREA OF SCREEN mm²</th>
<th>NOMINAL THICKNESS OF INSULATION mm</th>
<th>NOMINAL THICKNESS OF SEMI-CONDUCTIVE LAYER mm</th>
<th>NOMINAL THICKNESS OF SHEATH mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
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<tbody>
<tr>
<td>B1E20KV01095RD</td>
<td>1</td>
<td>95</td>
<td>25</td>
<td>5.50</td>
<td>0.50 (Fully Bonded)</td>
<td>2.50</td>
<td>33</td>
<td>1250</td>
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<tr>
<td>B1E20KV01630RD</td>
<td>1</td>
<td>630</td>
<td>35</td>
<td>5.50</td>
<td>0.50 (Fully Bonded)</td>
<td>2.50</td>
<td>52</td>
<td>3500</td>
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## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km</th>
<th>CONDUCTOR AC RESISTANCE BY MAXIMUM TEMPERATURE Ω/km</th>
<th>NOMINAL SHORT-CIRCUIT OF CONDUCTOR CURRENT FOR 1 SECOND kA</th>
<th>CURRENT CARRYING CAPACITY A</th>
<th>CONDUCTOR LOSSES IN THE GROUND kW/km</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In Ground 20°C</td>
<td>In Air 35°C</td>
<td>In Ground 20°C</td>
<td>In Air 35°C</td>
<td>In Ground 20°C</td>
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<tr>
<td>95</td>
<td>0.320</td>
<td>0.412</td>
<td>8.93</td>
<td>282</td>
<td>328</td>
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<tr>
<td>630</td>
<td>0.0469</td>
<td>0.0640</td>
<td>59.22</td>
<td>684</td>
<td>880</td>
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</table>

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.