ENW 19/33 (36)kV Single Core Aluminium Cable

**Application**
Medium voltage DNO aluminium power cable approved to Electricity North West (ENW) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.

**Characteristics**

**Voltage Rating (Uo/U)**
19/33 (36)kV

**Temperature Rating**
0°C to +90°C

**Construction**
- **Conductor**
  Class 2 Stranded Aluminium Conductor
- **Conductor Screen**
  Fully bonded semi-conductive compound
- **Insulation**
  XLPE (Cross-Linked Polyethylene)
- **Insulation Screen**
  Semi-conductive compound
- **Screen**
  Copper Wires and Equalising Tape
- **Separator**
  Binding tape
- **Sheath**
  MDPE (Medium-Density Polyethylene)
- **Sheath Colour**
  Black

**Standards**
BS 7870-4.10, ES 02-0940

**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 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™.

Click here for more information: elandcables.com | ENW 19/33 (36)kV Single Core Aluminium Cable
### DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL AREA OF METALLIC SCREEN mm²</th>
<th>NOMINAL OVERALL DIAMETER OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) mm²</th>
<th>NOMINAL WEIGHT OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) kg</th>
<th>MINIMUM BENDING RADIUS mm</th>
<th>MAXIMUM PULLING TENSION N</th>
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<td>D410120BK000</td>
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### ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
<th>MAXIMUM AC RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
<th>REACTANCE AT 50HZ ohms/km</th>
<th>CAPACITANCE µf/km</th>
<th>1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR kA</th>
<th>1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN kA</th>
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<tbody>
<tr>
<td>500</td>
<td>0.0605</td>
<td>0.08</td>
<td>0.105</td>
<td>0.32</td>
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<td>0.0469</td>
<td>0.063</td>
<td>0.103</td>
<td>0.33</td>
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<td>0.051</td>
<td>0.098</td>
<td>0.37</td>
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### CURRENT CARRYING CAPACITY

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<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>DIRECT BURIED Amps</th>
<th>IN DUCTS Amps</th>
<th>IN AIR Amps</th>
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<tr>
<td>500</td>
<td>543</td>
<td>498</td>
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<td>630</td>
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<td>800</td>
<td>684</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.