NR/PS/SIG/00005
Signalling Type E1, E2, E3 Cable

Eland Product Group: A5R

APPLICATION
Type E LSZH signalling cable suitable for tails.

CHARACTERISTICS
Voltage Rating \( U_0/U \)
6.5/1.1kV

Temperature Rating
-25°C to +85°C

CONSTRUCTION
Conductor
Class 5 tinned conductor

Insulation
LSZH (Low Smoke Zero Halogen) or EPR (Ethylene Propylene Rubber)

Drain Wire
Type E3 only

Screen (E3 only)
AL (Aluminium Tape)

Separator
PET (Polyethylene Terephthalate)

Sheath
LSZH (Low Smoke Zero Halogen)

Sheath Colour
● Black

CABLE THIRD-PARTY ACCREDITATION
Network Rail (NR) certified and PADS listed as meeting the requirements for installation within their network

STANDARDS
NR/PS/SIG/00005, BS EN 60228, BS EN 60754-1

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 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>NETWORK RAIL PART NO. / PADS</th>
<th>CABLE TYPE</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA</th>
<th>MINIMUM THICKNESS OF SHEATH mm</th>
<th>MINIMUM OVERALL DIAMETER mm</th>
<th>MAXIMUM OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5RE10025</td>
<td>006/120172</td>
<td>E1</td>
<td>1</td>
<td>2.5 mm²</td>
<td>3.8</td>
<td>11.2</td>
<td>14</td>
<td>174</td>
</tr>
<tr>
<td>A5RE202025</td>
<td>006/120170</td>
<td>E2</td>
<td>2</td>
<td>2.5 mm²</td>
<td>3.8</td>
<td>14.9</td>
<td>18.8</td>
<td>359</td>
</tr>
<tr>
<td>A5RE204025</td>
<td>006/120171</td>
<td>E2</td>
<td>4</td>
<td>2.5 mm²</td>
<td>3.8</td>
<td>16.4</td>
<td>20.9</td>
<td>445</td>
</tr>
<tr>
<td>A5RE207025</td>
<td>006/120173</td>
<td>E2</td>
<td>7</td>
<td>2.5 mm²</td>
<td>3.8</td>
<td>18.7</td>
<td>23.7</td>
<td>590</td>
</tr>
<tr>
<td>A5RE210025</td>
<td>006/120174</td>
<td>E2</td>
<td>10</td>
<td>2.5 mm²</td>
<td>3.8</td>
<td>22.5</td>
<td>28.6</td>
<td>784</td>
</tr>
<tr>
<td>A5RE212025</td>
<td>006/120175</td>
<td>E2</td>
<td>12</td>
<td>2.5 mm²</td>
<td>3.8</td>
<td>23.2</td>
<td>29.3</td>
<td>868</td>
</tr>
<tr>
<td>A5RE302025</td>
<td>006/160090</td>
<td>E3 + Drain</td>
<td>2</td>
<td>2.5 mm²</td>
<td>3.8</td>
<td>15</td>
<td>20</td>
<td>341</td>
</tr>
</tbody>
</table>

**CONDUCTORS**

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MAXIMUM NO. OF WIRES IN CONDUCTOR mm</th>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>0.26</td>
<td>8.21</td>
</tr>
</tbody>
</table>

The above table is in accordance with BS EN 60228 (previously BS 6360)

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.