**Profibus DP Cable**

Eland Product Group: **A8P**

**APPLICATION**

For the cabling of industrial fieldbus fast connect type systems particularly developed for process automation applications. Offering excellent electrical-transmissive performance required for Profibus DP applications.

**CONSTRUCTION**

**Conductor**

Class 1 solid copper conductor

**Insulation**

Polyolefin

**Bedding**

FR-PVC (Flame Retardant - Polyvinyl Chloride)

LSZH (Low Smoke Zero Halogen)

**Screen 1**

AL/PET (Aluminium/Polyester Tape)

**Screen 2**

TCWB (Tinned Copper Wire Braid)

**Sheath**

PVC (Polyvinyl Chloride)

LSZH (Low Smoke Zero Halogen)

**CABLE STANDARDS**

BS EN/IEC 60754-1*, BS EN/IEC 60332-1, BS EN/IEC 61158, BS EN 50170-2

*LSZH version only

**CHARACTERISTICS**

**Voltage Rating**

300V

**Temperature Rating**

Fixed: -40°C to +80°C

**Minimum Bending Radius**

Fixed: 8 x overall diameter

**Pair Identification**

- Red
- Green

**Sheath Colour**

- Violet

The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.
**DIMENSIONS**

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>SHEATH TYPE</th>
<th>NO. OF PAIRS AT 0.64mm (22/1 AWG)</th>
<th>NOMINAL DIAMETER OF INSULATION mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>A8P0102064DPPVC</td>
<td>PVC</td>
<td>1</td>
<td>2.5</td>
<td>7.9</td>
<td>79</td>
</tr>
<tr>
<td>A8P0102064DPLSH</td>
<td>LSZH</td>
<td>1</td>
<td>2.5</td>
<td>7.9</td>
<td>79</td>
</tr>
</tbody>
</table>

**PERFORMANCE CHARACTERISTICS**

<table>
<thead>
<tr>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
<th>CAPACITANCE AT 800Hz nF/km</th>
<th>IMPEDANCE (1 - 20MHz) ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
<td>29</td>
<td>150</td>
</tr>
</tbody>
</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.