Variable Frequency Drive (VFD) Medium Voltage Cable

Eland Product Group: A9VF

APPLICATION
Specially designed medium voltage power cable with high EMC protection for the use on frequency control for AC drives.

CONSTRUCTION

Phase Conductor
Class 2 compacted or stranded conductor, copper according to BS EN 60228 (previously BS 6360)

Conductor Screening
Non-metallic extruded semi-conducting XLPE

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screening
Non-metallic extruded semi-conducting XLPE

Metallic Screen Over Each Core
Copper tape

Earthing Conductor
Split-earth conductor. Laid in the interstices of phase conductors. Insulated or uninsulated available on request

Inner Covering
Polyolefin

Screen
Copper/polyester tape (copper side in contact with copper braid) Braid of copper wire

Sheath
Polyolefin

CABLE STANDARDS

Generally to IEC 60092-350, IEC 60092-354, BS EN/IEC 60332-1, BS EN/IEC 60332-3, BS EN/IEC 60331

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.

CHARACTERISTICS

Voltage Rating
8kV

Test Voltage
15kV

Temperature Rating
0°C to +90°C

Sheath Colour
Red
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES (POWER+ EARTH)</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL THICKNESS OF INSULATION mm</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
<th>MINIMUM BEDING RADIUS mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9VFD050</td>
<td>3 + 3</td>
<td>50</td>
<td>3.4</td>
<td>47</td>
<td>4060</td>
<td>300</td>
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</tbody>
</table>

Other sizes available on request

## CONDUCTORS

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>0.387</td>
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</table>

## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>CURRENT RATING AT 45°C Amps</th>
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<tbody>
<tr>
<td>50</td>
<td>130</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.