BS 6724 Copper Conductor Single Core AWA LSZH 1.9/3.3kV Cable

Eland Product Group: B9L

APPLICATION
Power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

CHARACTERISTICS

Voltage Rating
Uo/U
1.9/3.3kV

Temperature Rating
Maximum Operating: +90°C
Maximum Short-Circuit: +250°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 2 stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
HFFR (Halogen free flame retardant)

Armour
AWA (Aluminium Wire Armour)

Outer Sheath
HFFR (Halogen free flame retardant)

Core Identification
● Brown

Sheath Colour
● Black

STANDARDS
BS 6724, BS EN/IEC 61034, BS EN/IEC 60754
Flame retardant according to IEC 60332-1

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 LABORATORY TESTED
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DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL DIAMETER OF CONDUCTOR mm</th>
<th>NOMINAL THICKNESS OF INSULATION mm</th>
<th>MINIMUM THICKNESS OF OUTER SHEATH mm</th>
<th>NOMINAL OUTER DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
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<td>B9L01050BK</td>
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ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

<table>
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<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>REFERENCE METHOD C (CLIPPED DIRECT)</th>
<th>REFERENCE METHOD F (IN FREE AIR OR ON A PERFORATED CABLE TRAY ETC)</th>
<th>MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km</th>
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<tbody>
<tr>
<td>2 Cables Single-Phase AC or DC flat</td>
<td>Touching Horizontal</td>
<td>Touching Vertical</td>
<td>Spaced by one diameter Horizontal Vertical Horizontal Vertical</td>
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<tr>
<td>3 or 4 Cables Three-Phase AC</td>
<td>2 Cables Single-Phase AC or DC flat</td>
<td>3 Cables Three-Phase AC flat</td>
<td>3 Cables Three-phase AC trefoil</td>
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<tr>
<td>2 Cables DC</td>
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- 50  237  220  253  232  222  284  270  282  266  288  266  0.387
- 70  303  277  322  293  285  356  349  357  337  358  331  0.268
- 95  367  333  389  352  346  446  426  436  412  425  393  0.193
- 120  425  383  449  405  402  519  497  504  477  485  449  0.153
- 150  488  437  516  462  463  600  575  566  539  549  510  0.124
- 185  557  496  587  524  529  688  660  643  614  618  574  0.0991
- 240  656  579  689  612  625  815  782  749  714  715  666  0.0754
- 300  755  662  792  700  720  943  906  842  805  810  755  0.0601
- 400  853  717  899  767  815  1137  1094  929  889  848  797  0.0471
- 500  962  791  1016  851  918  1314  1266  1032  989  923  871  0.0366
- 630  1082  861  1146  935  1027  1528  1474  1139  1092  992  940  0.0283

Air ambient temperature: 30ºC
Conductor operating temperature: 90ºC

Notes
1. Where a conductor operates at a temperature exceeding 70ºC it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.2 of the 18th Edition of IEE Wiring Regulations).

2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70ºC, the current ratings given in the equivalent table for 70ºC thermoplastic insulated cables (Table 4D3A) must be used (see also Regulation 523.1 of the 18th Edition of IEE Wiring Regulations).

The above table is in accordance with Table 4E3A of the 18th Edition of IEE Wiring Regulations.

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.