# Coil End Lead Cable

## Eland Product Group **A6K**

ELAND CABLES
www.eland.co.uk

**Application**
Coil leads are used mainly in electrical machinery and panel wiring. The HOFR sheath resists oil and varnish and the stranding is designed as a compromise between flexibility and positional stability. Also suitable as an alternative to tri-rated and bi-rated cable in certain applications.

**Standards**
BS6195 Type 4

**Conductor**
Class 5 flexible tinned copper to BS EN 60228:2005 (previously BS6360)

**Separator**
PET (Polyethelene Terephthalate) Tape

**Insulation**
4A, 4C: EPR-HOFR (Ethylene Propylene Rubber - Heat and Oil Resistant and Flame Retardant) Type FR1 to BS7655

4D, 4E, 4F: EPR-HOFR (Ethylene Propylene Rubber - Heat and Oil Resistant and Flame Retardant) Type FR2 to BS7655

**Sheath**
CPE (Chlorinated Polyethylene) rubber compound

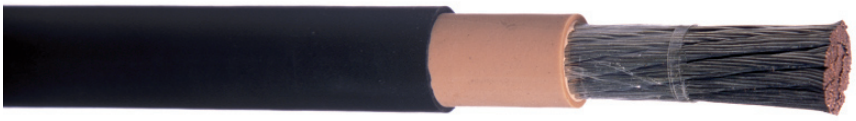
**Sheath Colour**
Black

**Voltage Rating**
Type 4A: 300/500V
Type 4C: 600/1000V
Type 4D: 1900/3300V
Type 4E: 3800/6600V
Type 4F: 6350/11000V

**Temperature Rating**
-30°C to +90°C

**Minimum Bending Radius**
4 x overall diameter

RoHS



## Dimensions

| Eland Part Number | Cable Type | No. of Cores x Nominal Cross Sectional Area # x mm² | Nominal Thickness of Insulation mm | Overall Diameter Max. mm | Nominal Weight kg/Km |
|---|---|---|---|---|---|
| Coil End Lead Type 4A Cable - 300/500V | | | | | |
| A6K00075A | 4A | 1 x 0.75 | 0.8 | 3.5 | 14.5 |
| A6K0010A | 4A | 1 x 1.00 | 0.8 | 3.7 | 22.5 |
| A6K0015A | 4A | 1 x 1.50 | 0.8 | 4.0 | 28.4 |
| A6K0025A | 4A | 1 x 2.50 | 0.9 | 4.6 | 41.5 |
| A6K0040A | 4A | 1 x 4.00 | 1.0 | 5.4 | 61.0 |
| A6K006A | 4A | 1 x 6.00 | 1.0 | 6.5 | 88.0 |
| A6K010A | 4A | 1 x 10.00 | 1.2 | 7.9 | 141.0 |
| Coil End Lead Type 4C Cable - 600/1000V | | | | | |
| A6K010 | 4C | 1 x 10.00 | 1.5 | 8.5 | 130.0 |
| A6K016 | 4C | 1 x 16.00 | 1.5 | 9.6 | 190.0 |
| A6K025 | 4C | 1 x 25.00 | 1.6 | 11.4 | 290.0 |
| A6K035 | 4C | 1 x 35.00 | 1.6 | 12.8 | 380.0 |
| A6K050 | 4C | 1 x 50.00 | 1.7 | 14.8 | 510.0 |
| A6K070 | 4C | 1 x 70.00 | 1.8 | 17.2 | 750.0 |
| A6K095 | 4C | 1 x 95.00 | 2.0 | 19.7 | 935.0 |
| A6K120 | 4C | 1 x 120.00 | 2.2 | 21.9 | 1160.0 |
| A6K150 | 4C | 1 x 150.00 | 2.3 | 24.1 | 1450.0 |
| A6K185 | 4C | 1 x 185.00 | 2.4 | 26.3 | 1770.0 |
| A6K240 | 4C | 1 x 240.00 | 2.4 | 28.3 | 2260.0 |
| A6K300 | 4C | 1 x 300.00 | 2.6 | 33.0 | 2760.0 |
| A6K400 | 4C | 1 x 400.00 | 2.8 | 37.4 | 3880.0 |
| A6K500 | 4C | 1 x 500.00 | 3.2 | 38.0 | 4650.0 |
| A6K630 | 4C | 1 x 630.00 | 3.3 | 43.0 | 6220.0 |
| Coil End Lead Type 4D Cable - 1900/3300V | | | | | |
| A6K0025D | 4D | 1 x 2.50 | 2.8 | 8.5 | 100.0 |
| A6K0040D | 4D | 1 x 4.00 | 2.8 | 9.1 | 115.0 |
| A6K006D | 4D | 1 x 6.00 | 2.8 | 10.3 | 141.0 |
| A6K010D | 4D | 1 x 10.00 | 2.8 | 11.3 | 216.0 |
| A6K016D | 4D | 1 x 16.00 | 2.8 | 12.4 | 288.0 |
| A6K025D | 4D | 1 x 25.00 | 2.8 | 13.8 | 392.0 |
| A6K035D | 4D | 1 x 35.00 | 2.8 | 15.2 | 509.0 |
| A6K050D | 4D | 1 x 50.00 | 2.8 | 17.1 | 682.0 |
| A6K070D | 4D | 1 x 70.00 | 2.8 | 19.2 | 894.0 |
| A6K095D | 4D | 1 x 95.00 | 3.0 | 22.0 | 1168.0 |
| A6K120D | 4D | 1 x 120.00 | 3.0 | 23.5 | 1433.0 |
| A6K150D | 4D | 1 x 150.00 | 3.0 | 25.5 | 1734.0 |
| A6K185D | 4D | 1 x 185.00 | 3.0 | 27.5 | 2073.0 |
| A6K240D | 4D | 1 x 240.00 | 3.0 | 30.6 | 2657.0 |
| A6K300D | 4D | 1 x 300.00 | 3.0 | 33.8 | 3279.0 |
| A6K400D | 4D | 1 x 400.00 | 3.0 | 37.8 | 4229.0 |

Datasheet Continues »

| Eland Part Number | Cable Type | No. of Cores x Nominal Cross Sectional Area # x mm² | Nominal Thickness of Insulation mm | Overall Diameter Max. mm | Nominal Weight kg/Km |
|---|---|---|---|---|---|
| Coil End Lead Type 4E Cable - 3300/6600V | | | | | |
| A6K016E | 4E | 1 x 16.00 | 5.0 | 17.2 | 408.0 |
| A6K025E | 4E | 1 x 25.00 | 5.0 | 18.6 | 527.0 |
| A6K035E | 4E | 1 x 35.00 | 5.0 | 20.0 | 656.0 |
| A6K050E | 4E | 1 x 50.00 | 5.0 | 22.1 | 832.0 |
| A6K070E | 4E | 1 x 70.00 | 5.0 | 24.2 | 1053.0 |
| A6K095E | 4E | 1 x 95.00 | 5.0 | 26.3 | 1304.0 |
| A6K120E | 4E | 1 x 120.00 | 5.0 | 27.8 | 1634.0 |
| A6K150E | 4E | 1 x 150.00 | 5.0 | 29.8 | 1894.0 |
| A6K185E | 4E | 1 x 185.00 | 5.0 | 32.1 | 2242.0 |
| A6K240E | 4E | 1 x 240.00 | 5.0 | 35.1 | 2842.0 |
| Coil End Lead Type 4F Cable - 6350/11000V | | | | | |
| A6K025F | 4F | 1 x 25.00 | 7.6 | 24.1 | 764.0 |
| A6K035F | 4F | 1 x 35.00 | 7.6 | 25.5 | 911.0 |
| A6K050F | 4F | 1 x 50.00 | 7.6 | 27.3 | 1114.0 |
| A6K070F | 4F | 1 x 70.00 | 7.6 | 29.4 | 1344.0 |
| A6K095F | 4F | 1 x 95.00 | 7.6 | 31.5 | 1610.0 |
| A6K120F | 4F | 1 x 120.00 | 7.6 | 33.3 | 1919.0 |
| A6K150F | 4F | 1 x 150.00 | 7.6 | 35.3 | 2248.0 |
| A6K185F | 4F | 1 x 185.00 | 7.6 | 37.3 | 2616.0 |
| A6K240F | 4F | 1 x 240.00 | 7.6 | 40.3 | 3252.0 |

## Conductors

**Class 5 flexible Copper Conductors for Single Core and Multi-Core cables**

| 1 | 2 | 4 |
|---|---|---|
| Nominal Cross Sectional Area mm² | Maximum Diameter of Wires in Conductor mm | Maximum Resistance of Conductor at 20°C Metal-Coated Wires ohms/Km |
| 0.50 | 0.21 | 40.1000 |
| 0.75 | 0.21 | 26.7000 |
| 1.00 | 0.21 | 20.0000 |
| 1.50 | 0.26 | 13.7000 |
| 2.50 | 0.26 | 8.2100 |
| 4.00 | 0.31 | 5.0900 |
| 6.00 | 0.31 | 3.3900 |
| 10.00 | 0.41 | 1.9500 |
| 16.00 | 0.41 | 1.2400 |
| 25.00 | 0.41 | 0.7950 |
| 35.00 | 0.41 | 0.5650 |
| 50.00 | 0.41 | 0.3930 |
| 70.00 | 0.51 | 0.2770 |
| 95.00 | 0.51 | 0.2100 |
| 120.00 | 0.51 | 0.1640 |
| 150.00 | 0.51 | 0.1320 |
| 185.00 | 0.51 | 0.1080 |
| 240.00 | 0.51 | 0.0817 |
| 300.00 | 0.51 | 0.0654 |
| 400.00 | 0.51 | 0.0495 |
| 500.00 | 0.61 | 0.0391 |
| 630.00 | 0.61 | 0.0292 |

Table in accordance with BS EN 60228:2005 (previously BS6360)

The current-carrying capacities in this appendix are based upon the following reference ambient temperatures:
For non-sheathed and sheathed cables in air, irrespective of the Installation Method: 30°C
For buried cables, either directly in the soil or in ducts in the ground: 20°C

The current ratings stated are based on conservative assumptions, and therefore, in some instances, may be adjusted according to the ambient installation and operating conditions

Datasheet Continues »

## Electrical Characteristics

**Current Carrying Capacity (amperes) in free air**

| Nominal Cross Sectional Area mm² | Maximum Continuous Current Rating | | |
|---|---|---|---|
| | Single Cable Amps | 2 Cables Bunched Amps | 3 Cables Bunched Amps |
| 0.50 | 16.00 | 13.0 | 10.5 |
| 0.75 | 20.00 | 16.5 | 13.0 |
| 1.00 | 24.0 | 19.5 | 15.5 |
| 1.50 | 30.0 | 24.0 | 19.5 |
| 2.50 | 40.0 | 34.0 | 27.0 |
| 4.00 | 54.0 | 46.0 | 38.0 |
| 6.00 | 72.0 | 61.0 | 51.0 |
| 10.00 | 100.0 | 87.0 | 72.0 |
| 16.00 | 135.0 | 118.0 | 99.0 |
| 25.00 | 179.0 | 158.0 | 133.0 |
| 35.00 | 225.0 | 198.0 | 168.0 |
| 50.00 | 283.0 | 250.0 | 214.0 |
| 70.00 | 354.0 | 314.0 | 271.0 |
| 95.00 | 425.0 | 378.0 | 328.0 |
| 120.00 | 501.0 | 446.0 | 388.0 |
| 150.00 | 578.0 | 515.0 | 449.0 |
| 185.00 | 659.0 | 587.0 | 514.0 |
| 240.00 | 795.0 | 705.0 | 618.0 |
| 300.00 | 923.0 | 813.0 | 713.0 |
| 400.00 | 1120.0 | 977.0 | 857.0 |
| 500.00 | 1270.0 | 1085.0 | 950.0 |
| 630.00 | 1460.0 | 1213.0 | 1139.0 |

Ambient temperature: 30°C
Conductor operating temperature: 90°C