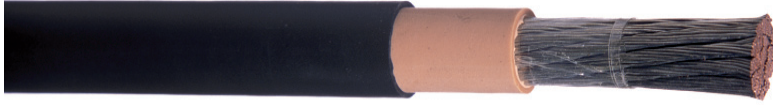


Coil End Lead Cable

Eland Product Group **A6K**



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

Technical Data

Conductor

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

Separator

PET (Polyethylene 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

Dimensions

Eland Part Number	Cable Type	No. of Cores x Nominal Cross Sectional Area # x mm ²	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

Eland Part Number	Cable Type	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Thickness of Insulation mm	Overall Diameter Max. mm	Nominal Weight kg/Km
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

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 mm ²	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
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

Electrical Characteristics

Current Carrying Capacity (amperes) in free air

Nominal Cross Sectional Area mm ²	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: 40°C

Conductor operating temperature: 90°C

De-rating factor for ambient temperature

Ambient Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C
De-rating Factor	1.14	1.09	1.05	1.00	0.95	0.90	0.84	0.77	0.71

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.