ELAND® CABLES

LSZH Mineral Insulated 750V Cable

Eland Product Group: **A6M**

APPLICATION

A heavy duty 750V low smoke zero halogen, mineral insulated cable designed to give ultimate fire performance. Suitable for use in public buildings, emergency lighting and alarm systems providing circuit integrity to 950°C. Suitable for Oil, Gas and Petroleum industries, airports, emergency lighting systems and fire alarm systems.

CONSTRUCTION

Conductor
Solid plain copper conductor

Insulation
Magnesium Oxide

Sheath
Copper tube, LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS EN 60702 Part 1
BS 5839-1 Enhanced (26.2e)
BS 5266, BS 8519 Cat 1 and 2
BS 8434-2, BS 6387 C, W and Z
BS 8491, BS EN 50200-PH30/60/120
BS 50265, 50266
BS EN 50267, BS EN 50268

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
750V

Temperature Rating
-10°C to 250°C

Minimum Bending Radius
6 x overall diameter

Sheath Colour
● Red ○ White ● Orange
Other colours available on request

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DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6M701006**	1	6	7.7	213
A6M01010**	1	10	8.8	273
A6M01016**	1	16	9.8	361
A6M01025**	1	25	11.1	506
A6M01035**	1	35	12.2	650
A6M01050**	1	50	13.6	842
A6M01070**	1	70	15.2	1147
A6M01095**	1	95	17.4	1520
A6M01120**	1	120	18.8	1870
A6M01150**	1	150	20.4	2230
A6M01185**	1	185	23.2	2575
A6M01240**	1	240	26.1	3312
A6M020015**	2	1.5	9.4	259
A6M020025**	2	2.5	10.2	314
A6M02004**	2	4	11.3	398
A6M02006**	2	6	12.4	483
A6M02010**	2	10	14.2	697
A6M02016**	2	16	16.2	968
A6M02025**	2	25	19.1	1275
A6M030015**	3	1.5	9.8	290
A6M030025**	3	2.5	10.8	365
A6M03004**	3	4	11.9	461
A6M03006**	3	6	13	590
A6M03010**	3	10	15.1	853
A6M03016**	3	16	17.1	1080
A6M03025**	3	25	20.2	1548
A6M040015**	4	1.5	10.6	344
A6M040025**	4	2.5	11.6	430
A6M04004**	4	4	12.9	577
A6M04006**	4	6	14.2	718
A6M04010**	4	10	16.3	1050
A6M04016**	4	16	19.3	1390
A6M04025**	4	25	22.3	1943
A6M070015**	7	1.5	12.3	478
A6M070025**	7	2.5	13.6	614
A6M120025**	12	2.5	17.9	970
A6M190015**	19	1.5	18.9	1086

*Eland Part No. shown above designate the sheath colour (*). For each colour substitute * for a colour code as listed below. e.g. A6M701006RD = 1mm² Red

Colour Codes

COLOUR	Red	Orange	White
CODE	RD	OR	WH

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CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83
16	1.15
25	0.727
35	0.524
50	0.387
70	0.268
95	0.193
120	0.153
150	0.124
185	0.101
240	0.0775

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	SINGLE PHASE AC OR DC Amps	THREE PHASE AC Amps
1	6	57	52
1	10	77	70
1	16	102	92
1	25	133	120
1	35	163	147
1	50	202	181
1	70	247	221
1	95	296	264
1	120	340	303
1	150	388	346
1	185	440	392
1	240	514	457
2	1.5	25	-
2	2.5	34	-
2	4	45	-
2	6	57	-
2	10	77	-
2	16	102	-
2	25	133	-
3	1.5	-	21
3	2.5	-	28
3	4	-	37
3	6	-	48
3	10	-	65
3	16	-	86

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NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	SINGLE PHASE AC OR DC Amps	THREE PHASE AC Amps
3	25	-	112
4	1.5	-	21
4	2.5	-	28
4	4	-	37
4	6	-	47
4	10	-	64
4	16	-	85
4	25	-	110
7	1.5	14.5	-
7	2.5	19.5	-
12	2.5	16	-
19	1.5	10	-

Voltage Drop

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	SINGLE PHASE AC OR DC mV/A/M	THREE PHASE AC mV/A/M
1	6	7	6
1	10	4.2	3.6
1	16	2.6	2.3
1	25	1.65	1.45
1	35	1.2	1.05
1	50	0.91	0.79
1	70	0.64	0.55
1	95	0.49	0.41
1	120	0.41	0.33
1	150	0.34	0.29
1	185	0.29	0.25
1	240	0.25	0.21
2	1.5	28	-
2	2.5	17	-
2	4	10	-
2	6	7	-
2	10	4.2	-
2	16	2.6	-
2	25	1.65	-
3	1.5	-	24
3	2.5	-	14
3	4	-	9.1
3	6	-	6
3	10	-	3.6
3	16	-	2.3
3	25	-	1.45

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Voltage Drop

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	SINGLE PHASE AC OR DC mV/A/M	THREE PHASE AC mV/A/M
4	1.5	-	24
4	2.5	-	14
4	4	-	9.1
4	6	-	6
4	10	-	3.6
4	16	-	2.3
4	25	-	1.45
7	1.5	28	-
7	2.5	17	-
12	2.5	17	-
19	1.5	28	-

*Method of cable support should withstand a similar temperature and duration to that of the cable.

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