

**ELAND**<sup>®</sup>  
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.

### CHARACTERISTICS

**Voltage Rating**  
750V

**Temperature Rating**  
-10°C to +250°C

**Minimum Bending Radius**  
6 x overall diameter

### CONSTRUCTION

**Conductor**  
Solid plain copper conductor

**Insulation**  
Magnesium Oxide

**Outer Sheath**  
Copper tube, LSZH (Low Smoke Zero Halogen)

**Sheath Colour**  
● Red ○ White ● Orange  
Other colour available on request

### CABLE THIRD-PARTY ACCREDITATION

#### We supply LPCB certified products

Certified by the Loss Prevention Certification Board (LPCB) for security and fire protection and listed in Red Book Live

### STANDARDS

BE EN 60702 Part 1, BS 5266, BS 8519, BS 8434-2, BS 6387, BS 8491, BS 5839-1

**bsi.**

### 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.



8578



FS 672069



EMS 672067



OHS 672066

### 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™.



KN 024287



## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6N01006**	1	6	7.7	213
A6N01010**	1	10	8.8	273
A6N01016**	1	16	9.8	361
A6N01025**	1	25	11.1	506
A6N01035**	1	35	12.2	650
A6N01050**	1	50	13.6	842
A6N01070**	1	70	15.2	1147
A6N01095**	1	95	17.4	1520
A6N01120**	1	120	18.8	1870
A6N01150**	1	150	20.4	2230
A6N01185**	1	185	23.2	2575
A6N01240**	1	240	26.1	3312
A6N020015**	2	1.5	9.4	259
A6N020025**	2	2.5	10.2	314
A6N02004**	2	4	11.3	398
A6N02006**	2	6	12.4	483
A6N02010**	2	10	14.2	697
A6N02016**	2	16	16.2	968
A6N02025**	2	25	19.1	1275
A6N030015**	3	1.5	9.8	290
A6N030025**	3	2.5	10.8	365
A6N03004**	3	4	11.9	461
A6N03006**	3	6	13	590
A6N03010**	3	10	15.1	853
A6N03016**	3	16	17.1	1080
A6N03025**	3	25	20.2	1548
A6N040015**	4	1.5	10.6	344
A6N040025**	4	2.5	11.6	430
A6N04004**	4	4	12.9	577
A6N04006**	4	6	14.2	718
A6N04010**	4	10	16.3	1050
A6N04016**	4	16	19.3	1390
A6N04025**	4	25	22.3	1943
A6N070015**	7	1.5	12.3	478
A6N070025**	7	2.5	13.6	614
A6N120025**	12	2.5	17.9	970
A6N190015**	19	1.5	18.9	1086

\* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below e.g. A6N701006RD = 1mm<sup>2</sup> Red

## COLOUR CODES

COLOUR	Orange	Red	White
CODE	OR	RD	WH

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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

## CURRENT CARRYING CAPACITY

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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
3	25	-	112
4	1.5	-	21
4	2.5	-	28
4	4	-	37

## CURRENT CARRYING CAPACITY

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	SINGLE-PHASE AC OR DC Amps	THREE-PHASE AC Amps
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	-

## CURRENT CARRYING CAPACITY

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	SINGLE-PHASE AC OR DC Amps	THREE-PHASE AC Amps
2	1	18.5	-
2	1.5	23	-
2	2.5	31	-
2	4	40	-
3	1	-	15
3	1.5	-	19
3	2.5	-	26
4	1	-	15
4	1.5	-	19
4	2.5	-	26
7	1.5	13	-
7	2.5	17.5	-

## VOLTAGE DROP

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	-

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

## VOLTAGE DROP

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	SINGLE-PHASE AC mV/A/M	THREE-PHASE AC mV/A/M
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
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.

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.