

LSZH Mineral Insulated 500V Cable



Eland Product Group: A6M

APPLICATION

A 500V light duty low smoke zero halogen, mineral insulated cable designed to give ultimate fire performance. Used for power and control circuits providing circuit integrity to 950°C. Suitable for oil, gas and petroleum industries, airports, emergency lighting systems and fire alarm systems.

CHARACTERISTICS

Voltage Rating
500V

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

BS EN 60702 Part 1, BS 5266, BS 8519, BS 8434-2, BS 6387, BS 8491, BS 5839-1, BS EN/IEC 61034-1/2, BS EN/IEC 60754-1/2

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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™.



DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6M02010**	2	1	6.4	126
A6M02015**	2	1.5	7	154
A6M02025**	2	2.5	7.9	206
A6M02040**	2	4	9.2	322
A6M03010**	3	1	7.1	159
A6M03015**	3	1.5	7.7	194
A6M03025**	3	2.5	8.8	272
A6M04010**	4	1	7.6	187
A6M04015**	4	1.5	8.3	231
A6M04025**	4	2.5	9.6	336
A6M07015**	7	1.5	9.9	351
A6M07025**	7	2.5	11.2	475

* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below e.g. A6M02010RD = 1mm² Red

COLOUR CODES

COLOUR	Orange	Red	White
CODE	OR	RD	WH

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1	18.1
1.5	12.1
2.5	7.41
4	4.61

CURRENT CARRYING CAPACITY

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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 ²	SINGLE-PHASE AC mV/A/M	THREE-PHASE AC mV/A/M
2	1	42	-
2	1.5	28	-
2	2.5	17	-
2	4	10	-
3	1	-	36
3	1.5	-	24
3	2.5	-	14
4	1	-	36
4	1.5	-	24
4	2.5	-	14
7	1.5	28	-
7	2.5	17	-

*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.