

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.

CONSTRUCTION

Conductor

Solid plain copper conductor

Insulation

Magnesium Oxide

Sheath

Copper tube, LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS EN60702 Part 1, BS 5839-1 Enhanced (26.2e)
BS 5266, BS 8519 Cat 1 and 2
BS 8434-2, BS EN 50200-PH30, PH60, PH120
BS 6387 C, W and Z, BS 8491
BS EN 50267, BS EN 50268
BS EN 50265 and 50266



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

500V

Temperature Rating

-10°C to 250°C

Minimum Bending Radius

6 x overall diameter

Sheath Colour

● Red ○ White ● Orange

Other colour available on request

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

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. A6M02010RD = 1mm² Red

Colour Codes

COLOUR	Red	Orange	White
CODE	RD	OR	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

ELECTRICAL CHARACTERISTICS

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 OR DC 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.