

## Bare Mineral 500V Cable



Eland Product Group: A6M

### APPLICATION

A 500V light duty mineral insulated cable designed to give the ultimate fire performance. Used in power and control circuits providing circuit integrity to 950°C. Suitable for Oil, Gas and Petroleum industries, airports, emergency lighting system and fire alarm systems.

### CHARACTERISTICS

**Voltage Rating**  
500V

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

**Minimum Bending Radius**  
6 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 1 Solid plain copper conductor

**Insulation**  
Magnesium Oxide

**Outer Sheath**  
Plain copper

### 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™.



KM 624267



## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6M02010PC	2	1	5.1	105
A6M02015PC	2	1.5	5.7	131
A6M02025PC	2	2.5	6.6	180
A6M02040PC	2	4	7.7	262
A6M03010PC	3	1	5.8	136
A6M03015PC	3	1.5	6.4	168
A6M03025PC	3	2.5	7.3	222
A6M04010PC	4	1	6.3	162
A6M04015PC	4	1.5	7	203
A6M04025PC	4	2.5	8.1	286
A6M07015PC	7	1.5	8.4	310
A6M07025PC	7	2.5	9.7	433

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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 <sup>2</sup>	SINGLE-PHASE AC OR DC Amps	THREE-PHASE AC Amps
2	1	17	-
2	1.5	21	-
2	2.5	28	-
2	4	36	-
3	1	-	14
3	1.5	-	17
3	2.5	-	23
4	1	-	14
4	1.5	-	17
4	2.5	-	23
7	1.5	12	-
7	2.5	16	-

## 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	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.