

## LXHIO1AV 3.6/6kV Cable



Eland Product Group: MP23

### APPLICATION

Portuguese Medium Voltage Cable for power distribution and power supply stations used in Utility and Industrial applications, with a rated voltage of 3.6/6kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (Um)  
3.6/6 (7.2)kV

**Temperature Rating**

Conductor maximum operating temperature: 90°C  
Maximum short-circuit temperature: 250°C

**Minimum Bending Radius**

During installation: 20 x overall diameter  
After installation: 15 x overall diameter

### CONSTRUCTION

**Conductor**

Class 2 stranded Aluminium

**Conductor Screen**

Semi-conductive XLPE (Cross-Linked Polyethylene)

**Insulation**

XLPE (Cross-Linked Polyethylene)

**Insulation Screen**

Semi-conductive XLPE (Cross-Linked Polyethylene)

**Metallic Screen**

Copper wire screen

**Inner Sheath**

PVC (Polyvinyl Chloride)

**Armour**

Two aluminium tapes helically applied

**Sheath**

PVC (Polyvinyl Chloride) type ST2

**Sheath Colour**

● Black

### STANDARDS

IEC 60228, IEC 60502-2,  
Flame retardant to IEC 60332-1-2,

### 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 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 <sup>2</sup>	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP2306KV01025	1	25	12.5	25.5	810
MP2306KV01035	1	35	13.5	26.5	870
MP2306KV01050	1	50	15.0	27.5	940
MP2306KV01070	1	70	16.5	29.0	1050
MP2306KV01095	1	95	18.0	31.0	1180
MP2306KV01120	1	120	20.0	32.5	1315
MP2306KV01150	1	150	21.0	34.0	1450
MP2306KV01185	1	185	22.5	35.5	1605
MP2306KV01240	1	240	25.5	38.5	1875
MP2306KV01300	1	300	28.5	42.0	2190
MP2306KV01400	1	400	32.0	45.5	2595
MP2306KV01500	1	500	35.0	49.0	3035
MP2306KV01630	1	630	40.0	54.0	3690

## ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY Amps		CONDUCTOR MAXIMUM SHORT-CIRCUIT CURRENT. T=1S kA	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C ohm/km	INDUCTANCE mH/km	CAPACITANCE µF/km
		In air	Buried				
1	25	127	127	2.4	1.2000	0.44	0.27
1	35	153	151	3.3	0.8680	0.42	0.30
1	50	183	179	4.7	0.6410	0.40	0.33
1	70	229	219	6.6	0.4430	0.38	0.38
1	95	279	262	9.0	0.3200	0.36	0.42
1	120	324	299	11.3	0.2530	0.34	0.47
1	150	366	334	14.2	0.2060	0.33	0.51
1	185	420	377	17.5	0.1640	0.32	0.55
1	240	497	437	22.7	0.1250	0.32	0.60
1	300	575	493	28.3	0.1000	0.31	0.63
1	400	671	563	37.8	0.0778	0.30	0.66
1	500	779	641	47.2	0.0605	0.29	0.69
1	630	915	732	59.5	0.0469	0.28	0.79

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.