

## LXHIO1AE 6/10kV Cable



Eland Product Group: MP24

### APPLICATION

Portuguese Medium Voltage Cable for power distribution and power supply stations used in Utility and Industrial applications, with a rated voltage of 6/10kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (U<sub>m</sub>)  
6/10 (12)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

PE (Polyethylene)

#### Sheath Colour

● Black

### STANDARDS

IEC 60228, IEC 60502-2,

### ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab<sup>®</sup>, 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<sup>®</sup> as meeting the requirements of the BSI RoHS Trusted Kitemark<sup>™</sup>.





## 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	
MP2410KV01025	1	25	14.5	27.5	900
MP2410KV01035	1	35	15.5	28.5	965
MP2410KV01050	1	50	17.0	29.5	1035
MP2410KV01070	1	70	18.5	31.0	1155
MP2410KV01095	1	95	20.0	33.0	1290
MP2410KV01120	1	120	22.0	34.5	1445
MP2410KV01150	1	150	23.0	36.0	1565
MP2410KV01185	1	185	24.5	37.5	1745
MP2410KV01240	1	240	27.0	40.0	1980
MP2410KV01300	1	300	30.0	43.0	2275
MP2410KV01400	1	400	32.5	46.0	2655
MP2410KV01500	1	500	35.5	49.0	3065
MP2410KV01630	1	630	40.5	54.5	3725

## 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	129	127	2.4	1.2000	0.46	0.22
1	35	155	151	3.3	0.8680	0.44	0.24
1	50	185	179	4.7	0.6410	0.42	0.26
1	70	232	219	6.6	0.4430	0.39	0.30
1	95	282	262	9.0	0.3200	0.37	0.33
1	120	326	298	11.3	0.2530	0.36	0.37
1	150	369	333	14.2	0.2060	0.35	0.39
1	185	423	377	17.5	0.1640	0.34	0.43
1	240	498	436	22.7	0.1250	0.32	0.47
1	300	576	493	28.3	0.1000	0.31	0.53
1	400	672	564	37.8	0.0778	0.30	0.59
1	500	779	641	47.2	0.0605	0.29	0.65
1	630	915	732	59.5	0.0469	0.28	0.75

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.