

## LXHIO1AE 12/20kV 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 12/20kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (Um)  
12/20 (24)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®, 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 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 E34287





## 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	
MP2420KV01035	1	35	20.0	32.5	1180
MP2420KV01050	1	50	21.0	34.0	1275
MP2420KV01070	1	70	22.5	35.5	1405
MP2420KV01095	1	95	24.5	37.5	1570
MP2420KV01120	1	120	26.0	39.0	1720
MP2420KV01150	1	150	27.5	40.5	1875
MP2420KV01185	1	185	29.0	42.0	2045
MP2420KV01240	1	240	31.0	44.5	2315
MP2420KV01300	1	300	34.0	47.5	2635
MP2420KV01400	1	400	37.0	51.0	3060
MP2420KV01500	1	500	40.0	54.0	3500
MP2420KV01630	1	630	44.5	59.0	4200

## 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	35	158	151	3.3	0.8680	0.47	0.17
1	50	189	178	4.7	0.6410	0.45	0.18
1	70	235	219	6.6	0.4430	0.42	0.21
1	95	286	261	9.0	0.3200	0.40	0.23
1	120	330	297	11.3	0.2530	0.38	0.25
1	150	373	333	14.2	0.2060	0.37	0.27
1	185	426	376	17.5	0.1640	0.36	0.29
1	240	503	435	22.7	0.1250	0.35	0.32
1	300	581	493	28.3	0.1000	0.33	0.35
1	400	676	563	37.8	0.0778	0.32	0.39
1	500	783	641	47.2	0.0605	0.31	0.43
1	630	918	732	59.5	0.0469	0.30	0.49

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.