

LXHIO1AV 18/30kV 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 18/30kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating U₀/U (Um)
18/30 (36)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 ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP2330KV01050	1	50	26.0	39.0	1595
MP2330KV01070	1	70	27.5	41.0	1760
MP2330KV01095	1	95	29.5	42.5	1920
MP2330KV01120	1	120	31.0	44.5	2105
MP2330KV01150	1	150	32.5	46.0	2250
MP2330KV01185	1	185	34.0	47.5	2460
MP2330KV01240	1	240	36.0	50.0	2780
MP2330KV01300	1	300	39.0	53.5	3125
MP2330KV01400	1	400	42.0	56.5	3585
MP2330KV01500	1	500	45.0	59.5	4020
MP2330KV01630	1	630	49.5	64.5	4765

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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	50	191	178	4.7	0.641	0.48	0.14
1	70	238	218	6.6	0.443	0.45	0.16
1	95	288	260	9.0	0.320	0.43	0.17
1	120	333	297	11.3	0.253	0.41	0.19
1	150	376	332	14.2	0.206	0.40	0.20
1	185	430	375	17.5	0.164	0.39	0.21
1	240	506	435	22.7	0.125	0.37	0.24
1	300	584	493	28.3	0.100	0.36	0.26
1	400	679	563	37.8	0.0778	0.34	0.29
1	500	786	642	47.2	0.0605	0.33	0.31
1	630	920	734	59.5	0.0469	0.32	0.35

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.