

LXHIAV 18/30kV Cable



Eland Product Group: MP48

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: 15 x overall diameter
After installation: 10 x overall diameter

CONSTRUCTION

Conductor

Class 2 Aluminium, circular, stranded

Conductor Screen

Semi-conductive XLPE (Cross-Linked Polyethylene)

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive XLPE (Cross-Linked Polyethylene)

Metallic Screen

Copper tape screen

Filler

Extruded polymeric material

Bedding

PVC (Polyvinyl Chloride)

Armour

STA (Steel Tape Armoured)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

IEC 60502-2, IEC 60228

Flame retardant according to EN/IEC 60332-1-2,
EN/IEC 60332-3-24,

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	
MP4830KV03050	3	50	26.0	76.0	6700
MP4830KV03070	3	70	27.5	80.0	7445
MP4830KV03095	3	95	29.5	85.5	9015
MP4830KV03120	3	120	31.0	89.5	9895
MP4830KV03150	3	150	32.5	92.5	10515
MP4830KV03185	3	185	34.0	96.0	11420
MP4830KV03240	3	240	36.0	101.5	12750
MP4830KV03300	3	300	39.0	108.0	14320
MP4830KV03400	3	400	42.0	115.0	16220

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				
3	50	159	162	4.7	0.6410	0.45	0.14
3	70	196	198	6.6	0.4430	0.41	0.16
3	95	238	236	9.0	0.3200	0.39	0.17
3	120	274	268	11.3	0.2530	0.38	0.19
3	150	309	302	14.2	0.2060	0.37	0.20
3	185	354	342	17.5	0.1640	0.35	0.21
3	240	415	395	22.7	0.1250	0.34	0.24
3	300	472	444	28.3	0.1000	0.32	0.26
3	400	545	504	37.8	0.0778	0.31	0.29

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.