

## XHI1AV 18/30kV Cable



Eland Product Group: MP17

### 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** U<sub>0</sub>/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 Copper

**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

**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<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	
MP1730KV01050	1	50	26.0	39.0	1890
MP1730KV01070	1	70	28.0	41.0	2180
MP1730KV01095	1	95	29.5	43.0	2500
MP1730KV01120	1	120	31.5	44.5	2835
MP1730KV01150	1	150	32.5	46.0	3125
MP1730KV01185	1	185	33.5	47.5	3550
MP1730KV01240	1	240	36.5	50.5	4245
MP1730KV01300	1	300	39.0	53.5	4985
MP1730KV01400	1	400	42.0	56.5	6040
MP1730KV01500	1	500	45.0	59.5	7060
MP1730KV01630	1	630	51.0	63.5	8875

## 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	50	248	230	7.2	0.3870	0.48	0.14
1	70	307	281	10.0	0.2680	0.45	0.16
1	95	372	335	13.6	0.1930	0.43	0.18
1	120	429	382	17.2	0.1530	0.41	0.19
1	150	484	426	21.5	0.1240	0.40	0.20
1	185	549	479	26.5	0.0991	0.39	0.21
1	240	648	555	34.3	0.0754	0.37	0.24
1	300	744	627	42.9	0.0601	0.36	0.26
1	400	858	710	57.2	0.0470	0.34	0.29
1	500	985	801	71.5	0.0366	0.33	0.31
1	630	1 126	900	90.1	0.0283	0.32	0.34

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.