

## XHI1AV 3.6/6kV 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 3.6/6kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (Um)  
3.6/6 (7.2)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®, 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 <sup>2</sup>	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP1706KV01025	1	25	13.0	25.5	960
MP1706KV01035	1	35	14.0	26.5	1080
MP1706KV01050	1	50	15.0	27.5	1230
MP1706KV01070	1	70	16.5	29.5	1470
MP1706KV01095	1	95	18.5	31.0	1760
MP1706KV01120	1	120	20.0	32.5	2035
MP1706KV01150	1	150	21.0	34.0	2325
MP1706KV01185	1	185	22.5	35.5	2700
MP1706KV01240	1	240	25.5	38.5	3340
MP1706KV01300	1	300	28.5	42.0	4050
MP1706KV01400	1	400	32.0	45.5	5045
MP1706KV01500	1	500	35.5	49.0	6070
MP1706KV01630	1	630	41.0	53.0	7775

## 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	164	164	3.6	0.7270	0.44	0.27
1	35	198	196	5.0	0.5240	0.42	0.30
1	50	238	231	7.2	0.3870	0.40	0.33
1	70	296	282	10.0	0.2680	0.38	0.38
1	95	360	338	13.6	0.1930	0.36	0.43
1	120	417	384	17.2	0.1530	0.34	0.48
1	150	470	428	21.5	0.1240	0.33	0.51
1	185	535	481	26.5	0.0991	0.33	0.54
1	240	635	557	34.3	0.0754	0.31	0.60
1	300	729	625	42.9	0.0601	0.31	0.63
1	400	844	708	57.2	0.0470	0.30	0.66
1	500	971	797	71.5	0.0366	0.29	0.69
1	630	1 109	892	90.1	0.0283	0.28	0.76

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.