

XHIOAV 6/10kV Cable



Eland Product Group: MP46

APPLICATION

Portuguese MV Cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages to 6/10kV. Suitable for fixed installations, directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating U_o/U (U_m)
6/10 (12)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 Copper, circular, stranded conductor

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

Tape

Plastic tape applied over screen

Filler

Extruded polymeric material

Bedding

PVC (Polyvinyl Chloride)

Armour

STA (Steel Tape Armoured)

Sheath

Extruded PVC (Polyvinyl Chloride) type ST2

Sheath Colour

● Black

STANDARDS

IEC 60228, IEC 60502-2
Flame retardant according to IEC/BS EN 60332-1-2,
IEC/BS EN 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	
MP4610KV03025	3	25	15.0	49.0	3 775
MP4610KV03035	3	35	16.0	51.5	4 255
MP4610KV03050	3	50	17.0	54.5	4 850
MP4610KV03070	3	70	18.5	58.5	5 815
MP4610KV03095	3	95	20.5	62.5	6 830
MP4610KV03120	3	120	22.0	66.5	7 885
MP4610KV03150	3	150	23.0	69.5	8 960
MP4610KV03185	3	185	24.5	72.5	10 290
MP4610KV03240	3	240	27.0	78.5	12 455
MP4610KV03300	3	300	30.0	85.0	14 935
MP4610KV03400	3	400	33.0	93.0	19 215

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	25	143	148	3.6	0.7270	0.40	0.22
3	35	172	177	5.0	0.5240	0.38	0.24
3	50	205	209	7.5	0.3870	0.37	0.27
3	70	253	255	10.0	0.2680	0.34	0.30
3	95	307	304	13.6	0.1930	0.32	0.34
3	120	352	345	17.2	0.1530	0.31	0.37
3	150	397	388	21.5	0.1240	0.30	0.39
3	185	453	437	26.5	0.0991	0.29	0.42
3	240	529	503	34.3	0.0754	0.28	0.48
3	300	599	563	42.9	0.0601	0.27	0.53
3	400	683	631	57.2	0.0470	0.26	0.59

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.