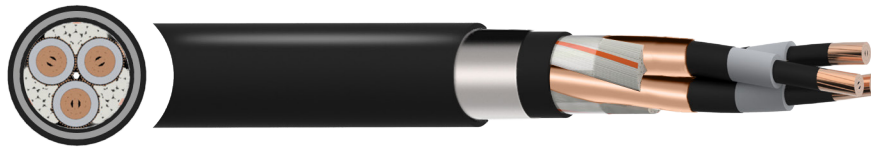




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ELAND[®]
CABLES

XHIAV Cable



Eland Product Group: MP44

APPLICATION

Portuguese reference Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages from 3.6/6kV to 18/30kV. Suitable for fixed installations, directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating U_o/U (U_m)

3.6/6 (7.2)kV,
6/10 (12)kV,
8.7/15 (17.5)kV,
12/20 (24)kV,
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 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 tape screen

Bedding

PVC (Polyvinyl Chloride)

Armour

STA (Steel Tape Armoured)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

IEC 60228, IEC 60502-2
Flame retardant (for PVC oversheath): IEC 60332-1-2, EN 60332-1-2
Fire retardant (for PVC oversheath, upon agreement): IEC 60332-3-24, 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.



8578



FS 672069



EMS 672067

OHS 672066

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™.



KIM 0342827





DIMENSIONS 3.6/6kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP4406KV03025	3	25	13.0	44.5	3320
MP4406KV03035	3	35	14.0	47.0	3775
MP4406KV03050	3	50	15.0	49.5	4340
MP4406KV03070	3	70	16.5	54.0	5280
MP4406KV03095	3	95	18.5	58.0	6325
MP4406KV03120	3	120	20.0	61.5	7290
MP4406KV03150	3	150	21.0	64.5	8300
MP4406KV03185	3	185	22.5	67.5	9640
MP4406KV03240	3	240	25.5	75.0	11985
MP4406KV03300	3	300	28.5	82.0	14475
MP4406KV03400	3	400	32.0	91.5	18920

ELECTRICAL CHARACTERISTICS 3.6/6kV

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	0.38	0.27
3	35	172	177	5.0	0.5240	0.36	0.30
3	50	205	209	7.5	0.3870	0.34	0.33
3	70	253	255	10.0	0.2680	0.32	0.38
3	95	307	304	13.6	0.1930	0.30	0.43
3	120	352	345	17.2	0.1530	0.29	0.48
3	150	397	388	21.5	0.1240	0.28	0.51
3	185	453	437	26.5	0.0991	0.28	0.54
3	240	529	503	34.3	0.0754	0.27	0.60
3	300	599	563	42.9	0.0601	0.26	0.63
3	400	683	631	57.2	0.0470	0.26	0.66

DIMENSIONS 6/10kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP4410KV03025	3	25	15.0	49.0	3775
MP4410KV03035	3	35	16.0	51.5	4255
MP4410KV03050	3	50	17.0	54.5	4850
MP4410KV03070	3	70	18.5	58.5	5815
MP4410KV03095	3	95	20.5	62.5	6830
MP4410KV03120	3	120	22.0	66.5	7885
MP4410KV03150	3	150	23.0	69.5	8960
MP4410KV03185	3	185	24.5	72.5	10290
MP4410KV03240	3	240	27.0	78.5	12455
MP4410KV03300	3	300	30.0	85.0	14935
MP4410KV03400	3	400	33.0	93.0	19215



ELECTRICAL CHARACTERISTICS 6/10kV

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

DIMENSIONS 8.7/15kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP4415KV03025	3	25	17.0	54.5	4335
MP4415KV03035	3	35	18.0	57.0	4835
MP4415KV03050	3	50	19.0	59.5	5470
MP4415KV03070	3	70	21.0	63.5	6425
MP4415KV03095	3	95	22.5	67.5	7505
MP4415KV03120	3	120	24.5	71.5	8600
MP4415KV03150	3	150	25.5	74.5	9730
MP4415KV03185	3	185	26.5	77.5	10985
MP4415KV03240	3	240	29.5	83.5	13290
MP4415KV03300	3	300	32.0	91.5	16705
MP4415KV03400	3	400	35.0	98.5	20225

ELECTRICAL CHARACTERISTICS 8.7/15kV

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	0.43	0.18
3	35	172	177	5.0	0.5240	0.41	0.20
3	50	205	209	7.5	0.3870	0.39	0.21
3	70	253	255	10.0	0.2680	0.36	0.24
3	95	307	304	13.6	0.1930	0.34	0.27
3	120	352	345	17.2	0.1530	0.33	0.29
3	150	397	388	21.5	0.1240	0.32	0.31
3	185	453	437	26.5	0.0991	0.31	0.33
3	240	529	503	34.3	0.0754	0.30	0.38
3	300	599	563	42.9	0.0601	0.29	0.42
3	400	683	631	57.2	0.0470	0.27	0.46



DIMENSIONS 12/20kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP4420KV03035	3	35	20.0	61.5	5325
MP4420KV03050	3	50	21.0	64.5	6000
MP4420KV03070	3	70	23.0	68.5	7045
MP4420KV03095	3	95	24.5	72.5	8190
MP4420KV03120	3	120	26.5	76.5	9280
MP4420KV03150	3	150	27.5	79.0	10330
MP4420KV03185	3	185	28.5	82.0	11760
MP4420KV03240	3	240	31.5	90.0	14985
MP4420KV03300	3	300	34.0	96.5	17595
MP4420KV03400	3	400	37.0	103.0	21170

ELECTRICAL CHARACTERISTICS 12/20kV

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	35	172	177	5.0	0.5240	0.43	0.17
3	50	205	209	7.5	0.3870	0.41	0.19
3	70	253	255	10.0	0.2680	0.37	0.21
3	95	307	304	13.6	0.1930	0.36	0.23
3	120	352	345	17.2	0.1530	0.34	0.25
3	150	397	388	21.5	0.1240	0.33	0.27
3	185	453	437	26.5	0.0991	0.32	0.28
3	240	529	503	34.3	0.0754	0.31	0.32
3	300	599	563	42.9	0.0601	0.30	0.35
3	400	683	631	57.2	0.0470	0.29	0.39

DIMENSIONS 18/30kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP4430KV03050	3	50	26.0	76.0	7595
MP4430KV03070	3	70	28.0	80.5	8730
MP4430KV03095	3	95	29.5	86.0	10845
MP4430KV03120	3	120	31.5	90.0	12105
MP4430KV03150	3	150	32.5	92.5	13170
MP4430KV03185	3	185	33.5	95.5	14725
MP4430KV03240	3	240	36.5	102.0	17205
MP4430KV03300	3	300	39.0	108.0	19950
MP4430KV03400	3	400	42.0	115.0	23760



ELECTRICAL CHARACTERISTICS 18/30kV

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	205	209	7.5	0.3870	0.45	0.14
3	70	253	255	10.0	0.2680	0.41	0.16
3	95	307	304	13.6	0.1930	0.39	0.18
3	120	352	345	17.2	0.1530	0.38	0.19
3	150	397	388	21.5	0.1240	0.36	0.20
3	185	453	437	26.5	0.0991	0.35	0.21
3	240	529	503	34.3	0.0754	0.34	0.24
3	300	599	563	42.9	0.0601	0.32	0.26
3	400	683	631	57.2	0.0470	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.