ELAND® CABLES

XHIO1AE 6/10kV Cable

Eland Product Group: MP20

APPLICATION

Portuguese Medium Voltage Cable for power distribution and power supply stations used in Utility and Industrial applications, with a rated voltage of 6/10kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
6/10 (12)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 wire screen

Inner Sheath
PVC (Polyvinyl Chloride)

Armour
Two aluminium tapes helically applied

Sheath
PE (Polyethylene) type ST7

Sheath Colour
● Black

STANDARDS

IEC 60228, IEC 60502-2

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.

UKAS ISO/IEC 17025 Testing laboratory accreditation 8578
bsi. ISO 9001 Quality Management FS 672069
ISO 14001 Environmental Management EMS 672067
ISO 45001 Occupational Health and Safety Management 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™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP2010KV01025	1	25	15.0	27.5	1050
MP2010KV01035	1	35	16.0	28.5	1175
MP2010KV01050	1	50	17.0	29.5	1325
MP2010KV01070	1	70	18.5	31.5	1575
MP2010KV01095	1	95	20.5	33.0	1865
MP2010KV01120	1	120	22.0	35.0	2170
MP2010KV01150	1	150	23.0	36.0	2445
MP2010KV01185	1	185	24.5	37.5	2845
MP2010KV01240	1	240	27.0	40.0	3445
MP2010KV01300	1	300	30.0	43.0	4130
MP2010KV01400	1	400	33.0	46.0	5105
MP2010KV01500	1	500	36.0	49.5	6100
MP2010KV01630	1	630	41.5	53.0	7815

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	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	166	163	3.6	0.7270	0.46	0.22
1	35	201	196	5.0	0.5240	0.44	0.24
1	50	240	231	7.2	0.3870	0.41	0.27
1	70	299	282	10.0	0.2680	0.39	0.30
1	95	364	338	13.6	0.1930	0.37	0.34
1	120	420	383	17.2	0.1530	0.36	0.37
1	150	474	428	21.5	0.1240	0.35	0.39
1	185	539	471	26.5	0.0991	0.34	0.42
1	240	636	555	34.3	0.0754	0.32	0.48
1	300	731	625	42.9	0.0601	0.31	0.53
1	400	846	708	57.2	0.0470	0.30	0.59
1	500	972	797	71.5	0.0366	0.29	0.65
1	630	1 110	892	90.1	0.0283	0.28	0.72

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