ELAND® CABLES

LXHIO1RE 8.7/15kV Cable

Eland Product Group: MP32

APPLICATION

Portuguese reference medium voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 8.7/15kV. Suitable for fixed installations, directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
8.7/15 (17.5)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 Aluminium

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
AWA - Aluminium wires, helically applied, tightened with plastic tapes

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	
MP3215KV01025	1	25	17.0	29.5	1005
MP3215KV01035	1	35	18.0	30.5	1075
MP3215KV01050	1	50	19.0	31.5	1150
MP3215KV01070	1	70	20.5	33.5	1270
MP3215KV01095	1	95	22.5	35.0	1430
MP3215KV01120	1	120	24.0	37.0	1575
MP3215KV01150	1	150	25.5	38.5	1720
MP3215KV01185	1	185	27.0	40.0	1885
MP3215KV01240	1	240	29.0	42.5	2150
MP3215KV01300	1	300	32.0	45.5	2455
MP3215KV01400	1	400	35.0	48.5	2850
MP3215KV01500	1	500	38.0	52.0	3300
MP3215KV01630	1	630	42.5	56.5	3950

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	130	127	2.4	1.2000	0.48	0.18
1	35	157	151	3.3	0.8680	0.46	0.19
1	50	187	179	4.7	0.6410	0.43	0.21
1	70	234	219	6.6	0.4430	0.41	0.24
1	95	284	261	9.0	0.3200	0.39	0.27
1	120	329	298	11.3	0.2530	0.37	0.29
1	150	372	333	14.2	0.2060	0.36	0.31
1	185	425	376	17.5	0.1640	0.35	0.34
1	240	501	435	22.7	0.1250	0.34	0.37
1	300	579	493	28.3	0.1000	0.32	0.42
1	400	674	563	37.8	0.0778	0.31	0.46
1	500	790	641	47.2	0.0605	0.30	0.51
1	630	917	732	59.5	0.0469	0.29	0.58

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