LXHIE 8.7/15kV Cable

Eland Product Group: MP40

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, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

CHARACTERISTICS

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

Test Voltage
30kV

Temperature Range
Fixed: -20°C to +90°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 2 Aluminium, circular, stranded

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

Sheath
PE (polyethylene)

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 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	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP4015K01025	1	25	17,0	24,5	665
MP4015K01035	1	35	18,0	25,5	720
MP4015K01050	1	50	19,0	26,5	785
MP4015K01070	1	70	20,5	28,5	900
MP4015K01095	1	95	22,5	30,0	1020
MP4015K01120	1	120	24,0	32,0	1160
MP4015K01150	1	150	25,5	33,5	1270
MP4015K01185	1	185	27,0	35,0	1435
MP4015K01240	1	240	29,0	37,5	1665
MP4015K01300	1	300	32,0	40,5	1915
MP4015K01400	1	400	35,0	43,5	2270
MP4015K01500	1	500	38,0	46,5	2655
MP4015K01630	1	630	42,5	51,5	3240
MP4015K03025	3	25	17,0	49,0	2665
MP4015K03035	3	35	18,0	51,5	2905
MP4015K03050	3	50	19,0	54,0	3210
MP4015K03070	3	70	20,5	58,0	3650
MP4015K03095	3	95	22,5	61,5	4210
MP4015K03120	3	120	24,0	65,5	4725
MP4015K03150	3	150	25,5	68,5	5285
MP4015K03185	3	185	27,0	72,0	5835
MP4015K03240	3	240	29,0	77,5	6830
MP4015K03300	3	300	32,0	84,0	7965
MP4015K03400	3	400	35,0	90,5	9390

ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR MAXIMUM SHORT CIRCUIT CURRENT T=1S kA	CONDUCTOR DC RESISTANCE AT 20°C ohm/km	INDUCTANCE mH/km	CAPACITANCE µF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
1	25	2,4	1,2000	0,45	0,18	126	124
1	35	3,3	0,8680	0,43	0,19	152	148
1	50	4,7	0,6410	0,41	0,21	182	175
1	70	6,6	0,4430	0,38	0,24	228	215
1	95	9,0	0,3200	0,36	0,27	277	257
1	120	11,3	0,2530	0,35	0,29	322	294
1	150	14,2	0,2060	0,34	0,31	365	330
1	185	17,5	0,1640	0,33	0,34	419	373
1	240	22,7	0,1250	0,32	0,37	496	434
1	300	28,3	0,1000	0,30	0,42	577	494
1	400	37,8	0,0778	0,29	0,46	675	566
1	500	47,2	0,0605	0,29	0,51	787	648
1	630	59,5	0,0469	0,27	0,58	929	745
3	25	2,4	1,2000	0,43	0,18	142	115
3	35	3,3	0,8680	0,41	0,19	170	136
3	50	4,7	0,6410	0,39	0,21	204	162
3	70	6,6	0,4430	0,36	0,24	253	198

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ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR MAXIMUM SHORT CIRCUIT CURRENT T=1S kA	CONDUCTOR DC RESISTANCE AT 20°C ohm/km	INDUCTANCE mH/km	CAPACITANCE µF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
3	95	9,0	0,3200	0,34	0,27	304	235
3	120	11,3	0,2530	0,33	0,29	351	268
3	150	14,2	0,2060	0,32	0,31	398	303
3	185	17,5	0,1640	0,31	0,34	455	343
3	240	22,7	0,1250	0,30	0,37	531	397
3	300	28,3	0,1000	0,29	0,42	606	448
3	400	37,8	0,0778	0,27	0,46	696	511