

LXHIOV 6/10kV Cable



Eland Product Group: ...

APPLICATION

Portuguese reference Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 6/10kV. Suitable for fixed installations, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

CHARACTERISTICS

Voltage Rating U₀/U (Um)
6/10 (12)kV

Test Voltage
21kV

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 wire screen

Sheath
PVC (Polyvinyl Chloride)

Sheath Colour
●Black

STANDARDS

IEC 60228, IEC 60502-2

Flame Retardant according to BS EN/IEC 60332-1-2

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.



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™.





DIMENSIONS

ELAND PART NO.	NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP0510K01025	1	25	14,5	22,0	505
MP0510K01035	1	35	15,5	23,0	560
MP0510K01050	1	50	17,0	24,5	615
MP0510K01070	1	70	18,5	26,0	705
MP0510K01095	1	95	20,0	28,0	830
MP0510K01120	1	120	22,0	29,5	950
MP0510K01150	1	150	23,0	31,0	1055
MP0510K01185	1	185	24,5	32,5	1205
MP0510K01240	1	240	27,0	35,0	1425
MP0510K01300	1	300	30,0	38,0	1695
MP0510K01400	1	400	32,5	41,0	2055
MP0510K01500	1	500	35,5	44,5	2450
MP0510K01600	1	630	40,5	49,0	3040
MP0510K03025	3	25	14,5	43,5	1935
MP0510K03035	3	35	15,5	46,0	2140
MP0510K03050	3	50	17,0	49,0	2395
MP0510K03070	3	70	18,5	52,5	2785
MP0510K03095	3	95	20,0	56,5	3270
MP0510K03120	3	120	22,0	60,5	3725
MP0510K03150	3	150	23,0	63,5	4170
MP0510K03185	3	185	24,5	67,0	4725
MP0510K03240	3	240	27,0	72,0	5750
MP0510K03300	3	300	30,0	79,0	6860
MP0510K03400	3	400	32,5	85,5	8390

ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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	0,43	0,22	124	124
1	35	3,3	0,8680	0,41	0,24	150	148
1	50	4,7	0,6410	0,39	0,26	179	175
1	70	6,6	0,4430	0,37	0,30	225	215
1	95	9,0	0,3200	0,35	0,33	274	258
1	120	11,3	0,2530	0,33	0,37	319	295
1	150	14,2	0,2060	0,32	0,39	361	330
1	185	17,5	0,1640	0,31	0,43	415	374
1	240	22,7	0,1250	0,30	0,47	493	435
1	300	28,3	0,1000	0,29	0,53	573	495
1	400	37,8	0,0778	0,28	0,59	671	567
1	500	47,2	0,0605	0,28	0,65	783	649
1	630	59,5	0,0469	0,27	0,75	926	745
3	25	2,4	1,2000	0,40	0,22	142	115
3	35	3,3	0,8680	0,39	0,24	170	136
3	50	4,7	0,6410	0,37	0,26	204	162
3	70	6,6	0,4430	0,34	0,30	253	198



ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	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	0,32	0,33	304	235
3	120	11,3	0,2530	0,31	0,37	351	268
3	150	14,2	0,2060	0,30	0,39	398	303
3	185	17,5	0,1640	0,29	0,43	455	343
3	240	22,7	0,1250	0,28	0,47	531	397
3	300	28,3	0,1000	0,27	0,53	606	448
3	400	37,8	0,0778	0,26	0,59	696	511

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.