

LXHIOV 12/20kV Cable



Eland Product Group: MP05

APPLICATION

Portuguese Medium Voltage cables for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 12/20kV. Suitable for fixed installations, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

CHARACTERISTICS

Voltage Rating U_o/U (Um)
12/20 (24)kV

Test Voltage
42kV

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
MP0520K01035	1	35	20,0	27,5	815
MP0520K01050	1	50	21,0	28,5	880
MP0520K01070	1	70	22,5	30,5	1 005
MP0520K01095	1	95	24,5	32,5	1 130
MP0520K01120	1	120	26,0	34,0	1 275
MP0520K01150	1	150	27,5	35,5	1 395
MP0520K01185	1	185	29,0	37,0	1 565
MP0520K01240	1	240	31,0	39,5	1 785
MP0520K01300	1	300	34,0	42,5	2 065
MP0520K01400	1	400	37,0	45,5	2 425
MP0520K01500	1	500	40,0	48,5	2 825
MP0520K01630	1	630	44,5	53,5	3 425
MP0520K03035	3	35	20,0	56,0	3 315
MP0520K03050	3	50	21,0	58,5	3 645
MP0520K03070	3	70	22,5	62,5	4 145
MP0520K03095	3	95	24,5	66,5	4 740
MP0520K03120	3	120	26,0	70,5	5 285
MP0520K03150	3	150	27,5	73,5	5 810
MP0520K03185	3	185	29,0	76,5	6 450
MP0520K03240	3	240	31,0	82,0	7 495
MP0520K03300	3	300	34,0	88,5	8 640
MP0520K03400	3	400	37,0	95,0	10 165

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	35	3,3	0,8680	0,44	0,17	154	148
1	50	4,7	0,6410	0,42	0,18	184	175
1	70	6,6	0,4430	0,40	0,21	230	215
1	95	9,0	0,3200	0,38	0,23	280	257
1	120	11,3	0,2530	0,36	0,25	325	294
1	150	14,2	0,2060	0,35	0,27	368	329
1	185	17,5	0,1640	0,34	0,29	422	373
1	240	22,7	0,1250	0,33	0,32	499	434
1	300	28,3	0,1000	0,32	0,35	579	493
1	400	37,8	0,0778	0,30	0,39	677	566
1	500	47,2	0,0605	0,30	0,43	789	647
1	630	59,5	0,0469	0,28	0,49	930	744
3	35	3,3	0,8680	0,43	0,17	170	136
3	50	4,7	0,6410	0,41	0,18	204	162
3	70	6,6	0,4430	0,38	0,21	253	198
3	95	9,0	0,3200	0,36	0,23	304	235
3	120	11,3	0,2530	0,34	0,25	351	268
3	150	14,2	0,2060	0,33	0,27	398	303
3	185	17,5	0,1640	0,32	0,29	455	343

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.



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	240	22,7	0,1250	0,31	0,32	531	397
3	300	28,3	0,1000	0,30	0,35	606	448
3	400	37,8	0,0778	0,29	0,39	696	511