

LXHIV 12/20kV Cable



Eland Product Group: MP39

APPLICATION

Portuguese Medium Voltage cable 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_0/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 tape 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
MP3920K01035	1	35	20,0	27,5	815
MP3920K01050	1	50	21,0	28,5	880
MP3920K01070	1	70	22,5	30,5	1005
MP3920K01095	1	95	24,5	32,5	1130
MP3920K01120	1	120	26,0	34,0	1275
MP3920K01150	1	150	27,5	35,5	1395
MP3920K01185	1	185	29,0	37,0	1565
MP3920K01240	1	240	31,0	39,5	1785
MP3920K01300	1	300	34,0	42,5	2065
MP3920K01400	1	400	37,0	45,5	2425
MP3920K01500	1	500	40,0	48,5	2825
MP3920K01630	1	630	44,5	53,5	3425
MP3920K03035	3	35	20,0	56,0	3315
MP3920K03050	3	50	21,0	58,5	3645
MP3920K03070	3	70	22,5	62,5	4145
MP3920K03095	3	95	24,5	66,5	4740
MP3920K03120	3	120	26,0	70,5	5285
MP3920K03150	3	150	27,5	73,5	5810
MP3920K03185	3	185	29,0	76,5	6450
MP3920K03240	3	240	31,0	82,0	7495
MP3920K03300	3	300	34,0	88,5	8640
MP3920K03400	3	400	37,0	95,0	10165

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