

LXHIORV Cable



Eland Product Group: MP59

APPLICATION

Portuguese Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, with a rated voltage from 3.6/6kV to 18/30kV. Suitable for fixed installations including directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

3.6/6 (7.2)kV,
6/10 (12)kV,
8.7/15 (17.5)kV,
12/20 (24)kV,
18/30 (36)kV

Temperature Rating

Conductor maximum operating temperature: 90°C
Maximum short-circuit temperature: 250°C

Minimum Bending Radius

During installation: 15 x overall diameter
After installation: 10 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

Tape

Plastic tape

Filler

Extruded polymeric material

Bedding

PVC (Polyvinyl Chloride)

Armour

SWA (Galvanized Steel Wire Armoured)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

IEC 60228, IEC 60502-2
Flame retardant to IEC 60332-1-2, IEC 60332-3-24,

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS 3.6/6 (7.2)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP5906KV03025	3	25	12.5	44.0	3 320
MP5906KV03035	3	35	13.5	46.5	3 775
MP5906KV03050	3	50	15.0	49.5	4 340
MP5906KV03070	3	70	16.5	53.5	5 280
MP5906KV03095	3	95	18.0	57.5	6 325
MP5906KV03120	3	120	20.0	61.0	7 290
MP5906KV03150	3	150	21.0	64.5	8 300
MP5906KV03185	3	185	22.5	68.0	9 640
MP5906KV03240	3	240	25.5	74.5	11 985
MP5906KV03300	3	300	28.5	82.0	14 475

ELECTRICAL CHARACTERISTICS 3.6/6 (7.2)kV

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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				
3	25	111	115	2.4	1.2000	0.38	0.27
3	35	133	136	3.3	0.8680	0.36	0.30
3	50	159	162	4.7	0.6410	0.35	0.33
3	70	196	198	6.6	0.4430	0.32	0.38
3	95	238	236	9.0	0.3200	0.30	0.42
3	120	274	268	11.3	0.2530	0.29	0.47
3	150	309	302	14.2	0.2060	0.29	0.51
3	185	354	342	17.5	0.1640	0.28	0.55
3	240	415	395	22.7	0.1250	0.27	0.60
3	300	472	444	28.3	0.1000	0.26	0.63

DIMENSIONS 6/10 (12)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP5910KV03025	3	25	14.5	49.0	3310
MP5910KV03035	3	35	15.5	51.5	3620
MP5910KV03050	3	50	17.0	54.0	3965
MP5910KV03070	3	70	18.5	58.0	4500
MP5910KV03095	3	95	20.0	62.0	5075
MP5910KV03120	3	120	22.0	66.0	5690
MP5910KV03150	3	150	23.0	69.5	6305
MP5910KV03185	3	185	24.5	72.5	6975
MP5910KV03240	3	240	27.0	78.0	8015
MP5910KV03300	3	300	30.0	85.0	9305



ELECTRICAL CHARACTERISTICS 6/10 (12)kV

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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				
3	25	111	115	2.4	1.2000	0.40	0.22
3	35	133	136	3.3	0.8680	0.39	0.24
3	50	159	162	4.7	0.6410	0.37	0.26
3	70	196	198	6.6	0.4430	0.34	0.30
3	95	238	236	9.0	0.3200	0.32	0.33
3	120	274	268	11.3	0.2530	0.31	0.37
3	150	309	302	14.2	0.2060	0.30	0.39
3	185	354	342	17.5	0.1640	0.29	0.43
3	240	415	395	22.7	0.1250	0.28	0.47
3	300	472	444	28.3	0.1000	0.27	0.53

DIMENSIONS 8.7/15 (17.5)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP5915KV03025	3	25	17.0	54.5	3870
MP5915KV03035	3	35	18.0	57.0	4200
MP5915KV03050	3	50	19.0	59.0	4530
MP5915KV03070	3	70	20.5	63.5	5100
MP5915KV03095	3	95	22.5	67.0	5750
MP5915KV03120	3	120	24.0	71.5	6405
MP5915KV03150	3	150	25.5	74.5	7075
MP5915KV03185	3	185	27.0	77.5	7670
MP5915KV03240	3	240	29.0	83.5	8845

ELECTRICAL CHARACTERISTICS 8.7/15 (17.5)kV

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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				
3	25	111	115	2.4	1.2000	0.43	0.18
3	35	133	136	3.3	0.8680	0.41	0.19
3	50	159	162	4.7	0.6410	0.39	0.21
3	70	196	198	6.6	0.4430	0.36	0.24
3	95	238	236	9.0	0.3200	0.34	0.27
3	120	274	268	11.3	0.2530	0.33	0.29
3	150	309	302	14.2	0.2060	0.32	0.31
3	185	354	342	17.5	0.1640	0.31	0.34
3	240	415	395	22.7	0.1250	0.30	0.37



DIMENSIONS 12/20 (24)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP5920KV03035	3	35	20.0	61.0	4685
MP5920KV03050	3	50	21.0	64.0	5110
MP5920KV03070	3	70	22.5	68.0	5710
MP5920KV03095	3	95	24.5	72.0	6435
MP5920KV03120	3	120	26.0	76.0	7080
MP5920KV03150	3	150	27.5	79.0	7680
MP5920KV03185	3	185	29.0	82.5	8445

ELECTRICAL CHARACTERISTICS 12/20 (24)kV

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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				
3	35	133	136	3.3	0.8680	0.43	0.17
3	50	159	162	4.7	0.6410	0.41	0.18
3	70	196	198	6.6	0.4430	0.38	0.21
3	95	238	236	9.0	0.3200	0.36	0.23
3	120	274	268	11.3	0.2530	0.34	0.25
3	150	309	302	14.2	0.2060	0.33	0.27
3	185	354	342	17.5	0.1640	0.32	0.29

DIMENSIONS 18/30 (36)kV

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP5930KV03050	3	50	26.0	76.0	6700
MP5930KV03070	3	70	27.5	80.0	7445
MP5930KV03095	3	95	29.5	85.5	9015
MP5930KV03120	3	120	31.0	89.5	9895

ELECTRICAL CHARACTERISTICS 18/30 (36)kV

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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				
3	50	159	162	4.7	0.6410	0.45	0.14
3	70	196	198	6.6	0.4430	0.41	0.16
3	95	238	236	9.0	0.3200	0.39	0.17
3	120	274	268	11.3	0.2530	0.38	0.19

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.