

# LXHIORV 12/20kV Cable



Eland Product Group: MP59

## APPLICATION

Portuguese reference medium voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 18/30kV. Suitable for fixed installations, directly buried. Good mechanical protection.

## CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (U<sub>m</sub>)  
12/20 (24)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 is applied over the screen

### Filler

Extruded polymeric material

### Bedding

PVC (Polyvinyl Chloride)

### Armour

SWA (Galvanized Steel Wire Armoured)

### Sheath

Extruded PVC (Polyvinyl Chloride) type ST2

### Sheath Colour

● Black

## STANDARDS

IEC 60228, IEC 60502-2

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

## 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.



8578



FS 672069



EMS 672067



OHS 672066

## REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



KM 634267



## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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

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.