

## LXHI1RE 12/20kV Cable



Eland Product Group: MP30

### APPLICATION

Portuguese referenced 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, directly buried. Good mechanical protection.

### CHARACTERISTICS

**Voltage Rating** U<sub>o</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: 20 x overall diameter  
After installation: 15 x overall diameter

### CONSTRUCTION

**Conductor**

Class 2 stranded circular Aluminium

**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

**Inner Sheath**

Extruded PVC (Polyvinyl Chloride)

**Armour**

AWA - Aluminium wires, helically applied, tightened with plastic tapes

**Sheath**

PE (Polyethylene) type ST7

**Sheath Colour**

● Black

### STANDARDS

IEC 60228, IEC 60502-2

### 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.



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 036287



## 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	
MP3020KV01035	1	35	20.0	32.5	1180
MP3020KV01050	1	50	21.0	34.0	1275
MP3020KV01070	1	70	22.5	35.5	1405
MP3020KV01095	1	95	24.5	37.5	1570
MP3020KV01120	1	120	26.0	39.0	1720
MP3020KV01150	1	150	27.5	40.5	1875
MP3020KV01185	1	185	29.0	42.0	2045
MP3020KV01240	1	240	31.0	44.5	2315
MP3020KV01300	1	300	34.0	47.5	2635
MP3020KV01400	1	400	37.0	51.0	3060
MP3020KV01500	1	500	40.0	54.0	3500
MP3020KV01630	1	630	44.5	59.0	4200

## 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				
1	35	158	151	3.3	0.8680	0.47	0.17
1	50	189	178	4.7	0.6410	0.45	0.18
1	70	235	219	6.6	0.4430	0.42	0.21
1	95	286	261	9.0	0.3200	0.40	0.23
1	120	330	297	11.3	0.2530	0.38	0.25
1	150	373	333	14.2	0.2060	0.37	0.27
1	185	426	376	17.5	0.1640	0.36	0.29
1	240	503	435	22.7	0.1250	0.35	0.32
1	300	581	493	28.3	0.1000	0.33	0.35
1	400	676	563	37.8	0.0778	0.32	0.39
1	500	783	641	47.2	0.0605	0.31	0.43
1	630	918	732	59.5	0.0469	0.30	0.49

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.