

LXHIO1RV 12/20kV Cable



Eland Product Group: MP31

APPLICATION

Portuguese reference 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_o/U (Um)
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 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 wire screen

Inner Sheath

PVC (Polyvinyl Chloride)

Armour

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

Sheath

PVC (Polyvinyl Chloride) type ST2

Sheath Colour

● Black

STANDARDS

IEC 60228, IEC 60502-2,

Flame retardant to 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 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™.





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP3120KV01035	1	35	20.0	32.5	1180
MP3120KV01050	1	50	21.0	34.0	1275
MP3120KV01070	1	70	22.5	35.5	1405
MP3120KV01095	1	95	24.5	37.5	1570
MP3120KV01120	1	120	26.0	39.0	1720
MP3120KV01150	1	150	27.5	40.5	1875
MP3120KV01185	1	185	29.0	42.0	2045
MP3120KV01240	1	240	31.0	44.5	2315
MP3120KV01300	1	300	34.0	47.5	2635
MP3120KV01400	1	400	37.0	51.0	3060
MP3120KV01500	1	500	40.0	54.0	3500
MP3120KV01630	1	630	44.5	59.0	4200

ELECTRICAL CHARACTERISTICS

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				
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.