

LXHIO1RE 12/20kV Cable



Eland Product Group: MP32

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 U₀/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 Plain annealed Aluminium circular, stranded conductor

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
 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.



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	
MP3220KV01035	1	35	20.0	32.5	1180
MP3220KV01050	1	50	21.0	34.0	1275
MP3220KV01070	1	70	22.5	35.5	1405
MP3220KV01095	1	95	24.5	37.5	1570
MP3220KV01120	1	120	26.0	39.0	1720
MP3220KV01150	1	150	27.5	40.5	1875
MP3220KV01185	1	185	29.0	42.0	2045
MP3220KV01240	1	240	31.0	44.5	2315
MP3220KV01300	1	300	34.0	47.5	2635
MP3220KV01400	1	400	37.0	51.0	3060
MP3220KV01500	1	500	40.0	54.0	3500
MP3220KV01630	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.