

LXHIOAV 12/20kV Cable



Eland Product Group: MP50

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 (U_m)
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 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

Tape
Plastic tape is applied over the screen

Filler
Extruded polymeric material

Bedding
PVC (Polyvinyl Chloride)

Armour
STA (Steel Tape Armoured)

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.



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 674287



DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP5020KV03035	3	35	20,0	61,0	4 685
MP5020KV03050	3	50	21,0	64,0	5 110
MP5020KV03070	3	70	22,5	68,0	5 710
MP5020KV03095	3	95	24,5	72,0	6 435
MP5020KV03120	3	120	26,0	76,0	7 080
MP5020KV03150	3	150	27,5	79,0	7 680
MP5020KV03185	3	185	29,0	82,5	8 445
MP5020KV03240	3	240	31,0	89,5	10 535
MP5020KV03300	3	300	34,0	96,5	11 970
MP5020KV03400	3	400	37,0	103,0	13 730

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				
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
3	240	415	395	22.7	0.1250	0.31	0.32
3	300	472	444	28.3	0.1000	0.30	0.35
3	400	545	504	37.8	0.0778	0.29	0.39

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.