

XHIAE 12/20kV Cable



Eland Product Group: MP45

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 Copper

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

Filler
Extruded polymeric material

Bedding
PE (Polyethylene)

Armour
STA (Steel Tape Armoured)

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	
MP4520KV03035	3	35	20.0	61.5	5325
MP4520KV03050	3	50	21.0	64.5	6000
MP4520KV03070	3	70	23.0	68.5	7045
MP4520KV03095	3	95	24.5	72.5	8190
MP4520KV03120	3	120	26.5	76.5	9280
MP4520KV03150	3	150	27.5	79.0	10330
MP4520KV03185	3	185	28.5	82.0	11760
MP4520KV03240	3	240	31.5	90.0	14985
MP4520KV03300	3	300	34.0	96.5	17595
MP4520KV03400	3	400	37.0	103.0	21170

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	172	177	5.0	0.5240	0.43	0.17
3	50	205	209	7.5	0.3870	0.41	0.19
3	70	253	255	10.0	0.2680	0.37	0.21
3	95	307	304	13.6	0.1930	0.36	0.23
3	120	352	345	17.2	0.1530	0.34	0.25
3	150	397	388	21.5	0.1240	0.33	0.27
3	185	453	437	26.5	0.0991	0.32	0.28
3	240	529	503	34.3	0.0754	0.31	0.32
3	300	599	563	42.9	0.0601	0.30	0.35
3	400	683	631	57.2	0.0470	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.