XHIO1AE 12/20kV Cable

Eland Product Group: MP20

APPLICATION

Portuguese Medium Voltage Cable for power distribution and power supply stations used in Utility and Industrial applications, with a rated voltage of 12/20kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating Uo/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 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 wire screen

Inner Sheath
PVC (Polyvinyl Chloride)

Armour
Two aluminium tapes helically applied

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.

UKAS ISO/IEC 17025 Testing laboratory accreditation 8578
bsi. ISO 9001 Quality Management FS 672069
ISO 14001 Environmental Management EMS 672067
ISO 45001 Occupational Health and Safety Management 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™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP2020KV01035	1	35	20.0	32.5	1390
MP2020KV01050	1	50	21.0	34.0	1565
MP2020KV01070	1	70	23.0	35.5	1825
MP2020KV01095	1	95	24.5	37.5	2150
MP2020KV01120	1	120	26.5	39.5	2445
MP2020KV01150	1	150	27.5	40.5	2750
MP2020KV01185	1	185	28.5	42.0	3140
MP2020KV01240	1	240	31.5	45.0	3780
MP2020KV01300	1	300	34.0	47.5	4490
MP2020KV01400	1	400	37.0	51.0	5515
MP2020KV01500	1	500	40.0	54.5	6535
MP2020KV01630	1	630	46.0	58.0	8300

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	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	204	195	5.0	0.5240	0.47	0.17
1	50	244	231	7.2	0.3870	0.44	0.19
1	70	304	282	10.0	0.2680	0.42	0.21
1	95	368	337	13.6	0.1930	0.40	0.23
1	120	425	383	17.2	0.1530	0.38	0.25
1	150	479	427	21.5	0.1240	0.37	0.27
1	185	544	479	26.5	0.0991	0.36	0.28
1	240	643	555	34.3	0.0754	0.35	0.32
1	300	739	626	42.9	0.0601	0.33	0.35
1	400	853	709	57.2	0.0470	0.32	0.39
1	500	979	799	71.5	0.0366	0.31	0.43
1	630	1 119	896	90.1	0.0283	0.30	0.47

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