# XHIO1AE 18/30kV 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 voltages of 18/30kV. Suitable for fixed installations, including directly buried. Good mechanical protection.

## CHARACTERISTICS

**Voltage Rating** Uo/U (Um)
18/30 (36)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 | |
| MP2030KV01050 | 1 | 50 | 26.0 | 39.0 | 1890 |
| MP2030KV01070 | 1 | 70 | 28.0 | 41.0 | 2180 |
| MP2030KV01095 | 1 | 95 | 29.5 | 43.0 | 2500 |
| MP2030KV01120 | 1 | 120 | 31.5 | 44.5 | 2835 |
| MP2030KV01150 | 1 | 150 | 32.5 | 46.0 | 3125 |
| MP2030KV01185 | 1 | 185 | 33.5 | 47.5 | 3550 |
| MP2030KV01240 | 1 | 240 | 36.5 | 50.5 | 4245 |
| MP2030KV01300 | 1 | 300 | 39.0 | 53.5 | 4985 |
| MP2030KV01400 | 1 | 400 | 42.0 | 56.5 | 6040 |
| MP2030KV01500 | 1 | 500 | 45.0 | 59.5 | 7060 |
| MP2030KV01630 | 1 | 630 | 51.0 | 63.5 | 8875 |

## 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 | 50 | 248 | 230 | 7.2 | 0.3870 | 0.48 | 0.14 |
| 1 | 70 | 307 | 281 | 10.0 | 0.2680 | 0.45 | 0.16 |
| 1 | 95 | 372 | 335 | 13.6 | 0.1930 | 0.43 | 0.18 |
| 1 | 120 | 429 | 382 | 17.2 | 0.1530 | 0.41 | 0.19 |
| 1 | 150 | 484 | 426 | 21.5 | 0.1240 | 0.40 | 0.20 |
| 1 | 185 | 549 | 479 | 26.5 | 0.0991 | 0.39 | 0.21 |
| 1 | 240 | 648 | 555 | 34.3 | 0.0754 | 0.37 | 0.24 |
| 1 | 300 | 744 | 627 | 42.9 | 0.0601 | 0.36 | 0.26 |
| 1 | 400 | 858 | 710 | 57.2 | 0.0470 | 0.34 | 0.29 |
| 1 | 500 | 985 | 801 | 71.5 | 0.0366 | 0.33 | 0.31 |
| 1 | 630 | 1 126 | 900 | 90.1 | 0.0283 | 0.32 | 0.34 |





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