

## LXHIO1RV 6/10kV Cable



Eland Product Group: MP31

### APPLICATION

Portuguese reference medium voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 6/100kV. Suitable for fixed installations, directly buried. Good mechanical protection.

### CHARACTERISTICS

**Voltage Rating**  $U_0/U$  (Um)  
6/10 (12)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 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

**Inner Sheath**

PVC (Polyvinyl Chloride)

**Armour**

AWA - Aluminium wires, helically applied, tightened with plastic tapes

**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 634267



## DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NOMINAL DIAMETER<br>mm |         | NOMINAL WEIGHT<br>kg/km |
|----------------|--------------|---|------------------------|---------|-------------------------|
|                |              |   | Over Insulation        | Overall |                         |
| MP3110KV01021  | 1            | 25  | 14.5                   | 27.5    | 900                     |
| MP3110KV01035  | 1            | 35  | 15.5                   | 28.5    | 965                     |
| MP3110KV01050  | 1            | 50  | 17.0                   | 29.5    | 1035                    |
| MP3110KV01070  | 1            | 70  | 18.5                   | 31.0    | 1155                    |
| MP3110KV01095  | 1            | 95  | 20.0                   | 33.0    | 1290                    |
| MP3110KV01120  | 1            | 120   | 22.0                   | 34.5    | 1445                    |
| MP3110KV01150  | 1            | 150   | 23.0                   | 36.0    | 1565                    |
| MP3110KV01185  | 1            | 185   | 24.5                   | 37.5    | 1745                    |
| MP3110KV01240  | 1            | 240   | 27.0                   | 40.0    | 1980                    |
| MP3110KV01300  | 1            | 300   | 30.0                   | 43.0    | 2275                    |
| MP3110KV01400  | 1            | 400   | 32.5                   | 46.0    | 2655                    |
| MP3110KV01500  | 1            | 500   | 35.5                   | 49.0    | 3065                    |
| MP3110KV01630  | 1            | 630   | 40.5                   | 54.5    | 3725                    |

## ELECTRICAL CHARACTERISTICS

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | CURRENT CARRYING CAPACITY<br>Amps |        | CONDUCTOR<br>MAXIMUM<br>SHORT-CIRCUIT<br>CURRENT. T=1S<br>kA | MAXIMUM<br>CONDUCTOR<br>DC RESISTANCE<br>AT 20°C<br>ohm/km | INDUCTANCE<br>mH/km | CAPACITANCE<br>µF/km |
|--------------|---|-----------------------------------|--------|--|--|---------------------|----------------------|
|              |   | In air                            | Buried |  |  |                     |                      |
| 1            | 25  | 129                               | 127    | 2.4  | 1.2000   | 0.46                | 0.22                 |
| 1            | 35  | 155                               | 151    | 3.3  | 0.8680   | 0.44                | 0.24                 |
| 1            | 50  | 185                               | 179    | 4.7  | 0.6410   | 0.42                | 0.26                 |
| 1            | 70  | 232                               | 219    | 6.6  | 0.4430   | 0.39                | 0.30                 |
| 1            | 95  | 282                               | 262    | 9.0  | 0.3200   | 0.37                | 0.33                 |
| 1            | 120   | 326                               | 298    | 11.3   | 0.2530   | 0.36                | 0.37                 |
| 1            | 150   | 369                               | 333    | 14.2   | 0.2060   | 0.35                | 0.39                 |
| 1            | 185   | 423                               | 377    | 17.5   | 0.1640   | 0.34                | 0.43                 |
| 1            | 240   | 498                               | 436    | 22.7   | 0.1250   | 0.32                | 0.47                 |
| 1            | 300   | 576                               | 493    | 28.3   | 0.1000   | 0.31                | 0.53                 |
| 1            | 400   | 672                               | 564    | 37.8   | 0.0778   | 0.30                | 0.59                 |
| 1            | 500   | 779                               | 641    | 47.2   | 0.0605   | 0.29                | 0.65                 |
| 1            | 630   | 915                               | 732    | 59.5   | 0.0469   | 0.28                | 0.75                 |

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.