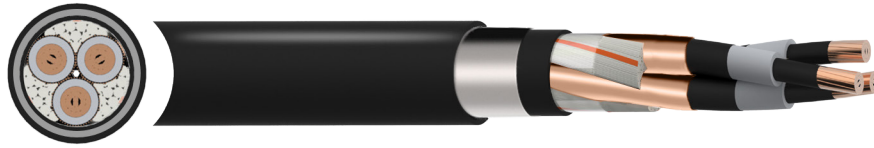




## XHIAV 3.6/6kV Cable



Eland Product Group: MP44

### APPLICATION

Portuguese reference Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 3.6/6kV. Suitable for fixed installations, directly buried. Good mechanical protection.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (Um)  
3.6/6 (7.2)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 Copper, circular, stranded conductor

#### 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

#### Bedding

PVC (Polyvinyl Chloride)

#### Armour

STA (Steel Tape Armoured)

#### Sheath

PVC (Polyvinyl Chloride)

#### Sheath Colour

● Black

### STANDARDS

IEC 60228, IEC 60502-2  
Flame retardant (for PVC oversheath): IEC 60332-1-2, EN 60332-1-2  
Fire retardant (for PVC oversheath, upon agreement): IEC 60332-3-24, EN 60332-3-24

### 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<br>mm <sup>2</sup> | NOMINAL DIAMETER<br>mm |         | NOMINAL WEIGHT<br>kg/km |
|----------------|--------------|-------------------------------------------------|------------------------|---------|-------------------------|
|                |              |                                                 | Over Insulation        | Overall |                         |
| MP4406KV03025  | 3            | 25                                              | 13.0                   | 44.5    | 3320                    |
| MP4406KV03035  | 3            | 35                                              | 14.0                   | 47.0    | 3775                    |
| MP4406KV03050  | 3            | 50                                              | 15.0                   | 49.5    | 4340                    |
| MP4406KV03070  | 3            | 70                                              | 16.5                   | 54.0    | 5280                    |
| MP4406KV03095  | 3            | 95                                              | 18.5                   | 58.0    | 6325                    |
| MP4406KV03120  | 3            | 120                                             | 20.0                   | 61.5    | 7290                    |
| MP4406KV03150  | 3            | 150                                             | 21.0                   | 64.5    | 8300                    |
| MP4406KV03185  | 3            | 185                                             | 22.5                   | 67.5    | 9640                    |
| MP4406KV03240  | 3            | 240                                             | 25.5                   | 75.0    | 11985                   |
| MP4406KV03300  | 3            | 300                                             | 28.5                   | 82.0    | 14475                   |
| MP4406KV03400  | 3            | 400                                             | 32.0                   | 91.5    | 18920                   |

## ELECTRICAL CHARACTERISTICS

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | CURRENT CARRYING CAPACITY<br>Amps |        | CONDUCTOR MAXIMUM SHORT-CIRCUIT CURRENT, T=1S<br>kA | MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C<br>ohm/km | INDUCTANCE<br>mH/km | CAPACITANCE<br>μF/km |
|--------------|-------------------------------------------------|-----------------------------------|--------|-----------------------------------------------------|---------------------------------------------------|---------------------|----------------------|
|              |                                                 | In air                            | Buried |                                                     |                                                   |                     |                      |
| 3            | 25                                              | 143                               | 148    | 3.6                                                 | 0.7270                                            | 0.38                | 0.27                 |
| 3            | 35                                              | 172                               | 177    | 5.0                                                 | 0.5240                                            | 0.36                | 0.30                 |
| 3            | 50                                              | 205                               | 209    | 7.5                                                 | 0.3870                                            | 0.34                | 0.33                 |
| 3            | 70                                              | 253                               | 255    | 10.0                                                | 0.2680                                            | 0.32                | 0.38                 |
| 3            | 95                                              | 307                               | 304    | 13.6                                                | 0.1930                                            | 0.30                | 0.43                 |
| 3            | 120                                             | 352                               | 345    | 17.2                                                | 0.1530                                            | 0.29                | 0.48                 |
| 3            | 150                                             | 397                               | 388    | 21.5                                                | 0.1240                                            | 0.28                | 0.51                 |
| 3            | 185                                             | 453                               | 437    | 26.5                                                | 0.0991                                            | 0.28                | 0.54                 |
| 3            | 240                                             | 529                               | 503    | 34.3                                                | 0.0754                                            | 0.27                | 0.60                 |
| 3            | 300                                             | 599                               | 563    | 42.9                                                | 0.0601                                            | 0.26                | 0.63                 |
| 3            | 400                                             | 683                               | 631    | 57.2                                                | 0.0470                                            | 0.26                | 0.66                 |

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.