

XHI1RV 6/10kV Cable



Eland Product Group: MP25

APPLICATION

Portuguese Medium voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 6/10kV. Suitable for fixed installations, directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating U₀/U (U_m)
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 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

Inner Sheath
Extruded PVC (Polyvinyl Chloride)

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

Sheath
Extruded PVC (Polyvinyl Chloride)

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 | |
| MP2510KV01025 | 1 | 25 | 15.0 | 27.5 | 1050 |
| MP250KV01035 | 1 | 35 | 16.0 | 28.5 | 1175 |
| MP2510KV01050 | 1 | 50 | 17.0 | 29.5 | 1325 |
| MP2510KV01070 | 1 | 70 | 18.5 | 31.5 | 1575 |
| MP2510KV01095 | 1 | 95 | 20.5 | 33.0 | 1865 |
| MP2510KV01120 | 1 | 120 | 22.0 | 35.0 | 2170 |
| MP2510KV01150 | 1 | 150 | 23.0 | 36.0 | 2445 |
| MP2510KV01185 | 1 | 185 | 24.5 | 37.5 | 2845 |
| MP2510KV01240 | 1 | 240 | 27.0 | 40.0 | 3445 |
| MP2510KV01300 | 1 | 300 | 30.0 | 43.0 | 4130 |
| MP2510KV01400 | 1 | 400 | 33.0 | 46.0 | 5105 |
| MP2510KV01500 | 1 | 500 | 36.0 | 49.5 | 6100 |
| MP2510KV01630 | 1 | 630 | 41.5 | 53.0 | 7815 |

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 | | | | |
| 1 | 25 | 166 | 163 | 3.6 | 0.7270 | 0.46 | 0.22 |
| 1 | 35 | 201 | 196 | 5.0 | 0.5240 | 0.44 | 0.24 |
| 1 | 50 | 240 | 231 | 7.2 | 0.3870 | 0.41 | 0.27 |
| 1 | 70 | 299 | 282 | 10.0 | 0.2680 | 0.39 | 0.30 |
| 1 | 95 | 364 | 338 | 13.6 | 0.1930 | 0.37 | 0.34 |
| 1 | 120 | 420 | 383 | 17.2 | 0.1530 | 0.36 | 0.37 |
| 1 | 150 | 474 | 428 | 21.5 | 0.1240 | 0.35 | 0.39 |
| 1 | 185 | 539 | 471 | 26.5 | 0.0991 | 0.34 | 0.42 |
| 1 | 240 | 636 | 555 | 34.3 | 0.0754 | 0.32 | 0.48 |
| 1 | 300 | 731 | 625 | 42.9 | 0.0601 | 0.31 | 0.53 |
| 1 | 400 | 846 | 708 | 57.2 | 0.0470 | 0.30 | 0.59 |
| 1 | 500 | 972 | 797 | 71.5 | 0.0366 | 0.29 | 0.65 |
| 1 | 630 | 1 110 | 892 | 90.1 | 0.0283 | 0.28 | 0.72 |

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.