

XHIO1RV 18/30kV Cable



Eland Product Group: MP27

APPLICATION

Portuguese referenced Medium Voltage cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 18/30kV. Suitable for fixed installations, directly buried. Good mechanical protection.

CHARACTERISTICS

Voltage Rating U_0/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
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™.





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER mm		NOMINAL WEIGHT kg/km
			Over Insulation	Overall	
MP2730KV01050	1	50	26.0	39.0	1890
MP2730KV01070	1	70	28.0	41.0	2180
MP2730KV01095	1	95	29.5	43.0	2500
MP2730KV01120	1	120	31.5	44.5	2835
MP2730KV01150	1	150	32.5	46.0	3125
MP2730KV01185	1	185	33.5	47.5	3550
MP2730KV01240	1	240	36.5	50.5	4245
MP2730KV01300	1	300	39.0	53.5	4985
MP2730KV01400	1	400	42.0	56.5	6040
MP2730KV01500	1	500	45.0	59.5	7060
MP2730KV01630	1	630	51.0	63.5	8875

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	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

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.