

XHIE 6/10kV Cable



Eland Product Group: MP02

APPLICATION

Portuguese MV Cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages to 6/10kV. Suitable for fixed installations, indoor or outdoor including directly buried.

CHARACTERISTICS

Voltage Rating U_0/U (Um)
6/10 (12)kV

Test Voltage
21kV

Temperature Range
Fixed: -20°C to +90°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Stranded copper conductor

Inner Layer
Semi-conductive material

Insulation
XLPE (Cross-Linked Polyethylene)

Outer Layer
Semi-conductive material and tape

Screen
Copper tape

Outer Sheath
PE (Polyethylene)

Sheath Colour
● Black

STANDARDS

EN/IEC 60228, EN/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 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	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP0210K01025	1	25	15.0	22.0	730
MP0210K01035	1	35	16.0	23.0	835
MP0210K01050	1	50	17.0	24.5	985
MP0210K01070	1	70	18.5	26.0	1210
MP0210K01095	1	95	20.5	28.0	1500
MP0210K01120	1	120	22.0	30.0	1760
MP0210K01150	1	150	23.0	31.0	2040
MP0210K01185	1	185	24.5	32.5	2405
MP0210K01240	1	240	27.0	35.5	2990
MP0210K01300	1	300	30.0	38.0	3640
MP0210K01400	1	400	33.0	41.5	4580
MP0210K01500	1	500	36.0	44.5	5530
MP0210K01630	1	630	41.5	48.0	7140
MP0210K03035	3	25	15.0	44.0	2715
MP0210K03050	3	35	16.0	46.5	3115
MP0210K03070	3	50	17.0	49.0	3640
MP0210K03095	3	70	18.5	53.0	4480
MP0210K03120	3	95	20.5	57.0	5460
MP0210K03150	3	120	22.0	61.0	6395
MP0210K03185	3	150	23.0	63.5	7335
MP0210K03240	3	185	24.5	66.5	8590
MP0210K03300	3	240	27.0	72.5	10605
MP0210K03500	3	300	30.0	79.0	12880
MP0210K03630	3	400	33.0	85.5	16050

ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR MAXIMUM SHORT CIRCUIT CURRENT T=1S kA	CONDUCTOR DC RESISTANCE AT 20°C ohm/km	INDUCTANCE mH/km	CAPACITANCE uF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
1	25	3.6	0.7270	0.43	0.22	160	160
1	35	5.0	0.5240	0.41	0.24	194	191
1	50	7.5	0.3870	0.39	0.27	233	226
1	70	10.0	0.2680	0.36	0.30	291	278
1	95	13.6	0.1930	0.35	0.34	355	333
1	120	17.2	0.1530	0.33	0.37	411	380
1	150	21.5	0.1240	0.32	0.39	466	426
1	185	26.5	0.0991	0.32	0.42	532	480
1	240	34.3	0.0754	0.30	0.48	634	559
1	300	42.9	0.0601	0.29	0.53	733	633
1	400	57.2	0.0470	0.28	0.59	853	720
1	500	71.5	0.0366	0.27	0.65	987	817
1	630	90.1	0.0283	0.27	0.72	1136	920

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ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR MAXIMUM SHORT CIRCUIT CURRENT T=1S kA	CONDUCTOR DC RESISTANCE AT 20°C ohm/km	INDUCTANCE mH/km	CAPACITANCE uF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
3	25	3.6	0.7270	0.40	0.22	142	148
3	35	5.0	0.5240	0.38	0.24	170	175
3	50	7.5	0.3870	0.37	0.27	204	209
3	70	10.0	0.2680	0.34	0.30	253	256
3	95	13.6	0.1930	0.32	0.34	304	303
3	120	17.2	0.1530	0.31	0.37	351	345
3	150	21.5	0.1240	0.30	0.39	398	390
3	185	26.5	0.0991	0.29	0.42	455	440
3	240	34.3	0.0754	0.28	0.48	531	507
3	300	42.9	0.0601	0.27	0.53	606	571
3	400	57.2	0.0470	0.26	0.59	696	645

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