

XHIV 3.6/6kV Cable



Eland Product Group: MP01

APPLICATION

Portuguese MV Cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages to 3.6/6kV. Suitable for fixed installations, indoor or outdoor including directly buried.

CHARACTERISTICS

Voltage Rating U_o/U (Um)
3.6/10 (12)kV

Test Voltage
12.6kV

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
PVC (Polyvinyl Chloride)

Sheath Colour
● Black

STANDARDS

IEC 60228, IEC 60502-2

Flame Retardant according to BS EN/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.



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
MP0106K01035	1	25	13.0	20.0	655
MP0106K01050	1	35	14.0	21.0	770
MP0106K01070	1	50	15.0	22.5	905
MP0106K01095	1	70	16.5	24.0	1120
MP0106K01120	1	95	18.5	26.0	1400
MP0106K01150	1	120	20.0	28.0	1675
MP0106K01185	1	150	21.0	29.0	1930
MP0106K01240	1	185	22.5	30.5	2305
MP0106K01300	1	240	25.5	33.5	2885
MP0106K01500	1	300	28.5	37.0	3555
MP0106K01630	1	400	32.0	40.5	4505
MP0106K01500	1	500	35.5	44.0	5480
MP0106K01630	1	630	41.0	47.5	7110
MP0106K03035	3	25	13.0	39.5	2395
MP0106K03050	3	35	14.0	42.0	2770
MP0106K03070	3	50	15.0	44.5	3270
MP0106K03095	3	70	16.5	48.5	4085
MP0106K03120	3	95	18.5	52.5	5005
MP0106K03150	3	120	20.0	56.5	5910
MP0106K03185	3	150	21.0	59.0	6825
MP0106K03240	3	185	22.5	62.0	8055
MP0106K03300	3	240	25.5	69.0	10280
MP0106K03500	3	300	28.5	76.0	12490
MP0106K03630	3	400	32.0	84.0	15820

ELECTRICAL CHARACTERISTICS

NO. 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 µF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
1	25	3.6	0.7270	0.41	0.27	157	160
1	35	5.0	0.5240	0.39	0.30	190	191
1	50	7.5	0.3870	0.37	0.33	229	227
1	70	10.0	0.2680	0.35	0.38	286	278
1	95	13.6	0.1930	0.33	0.43	350	333
1	120	17.2	0.1530	0.32	0.48	406	380
1	150	21.5	0.1240	0.31	0.51	461	426
1	185	26.5	0.0991	0.30	0.54	526	481
1	240	34.3	0.0754	0.29	0.60	630	560
1	300	42.9	0.0601	0.28	0.63	731	634
1	400	57.2	0.0470	0.28	0.66	851	721
1	500	71.5	0.0366	0.27	0.69	986	816
1	630	90.1	0.0283	0.27	0.76	1135	921



ELECTRICAL CHARACTERISTICS

NO. 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 µF/km	CURRENT CARRYING CAPACITY Amps	
						In Air	Buried
3	25	3.6	0.7270	0.38	0.27	142	148
3	35	5.0	0.5240	0.36	0.30	170	175
3	50	7.5	0.3870	0.34	0.33	204	209
3	70	10.0	0.2680	0.32	0.38	253	256
3	95	13.6	0.1930	0.30	0.43	304	303
3	120	17.2	0.1530	0.29	0.48	351	345
3	150	21.5	0.1240	0.28	0.51	398	390
3	185	26.5	0.0991	0.28	0.54	455	440
3	240	34.3	0.0754	0.27	0.60	531	507
3	300	42.9	0.0601	0.26	0.63	606	571
3	400	57.2	0.0470	0.26	0.66	696	645

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.