

## XHIOE 6/10kV Cable



Eland Product Group: MP04

### APPLICATION

Portuguese referenced 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, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/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 Screen**  
Semi-conductive XLPE (Cross-Linked Polyethylene)

**Insulation**  
XLPE (Cross-Linked Polyethylene)

**Insulation Screen**  
Semi-conductive XLPE (Cross-Linked Polyethylene) and tape

**Metallic Screen**  
Copper wires

**Outer Sheath**  
PE (Polyethylene)

**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 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 <sup>2</sup>	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
MP0410K01025	1	25	15.0	22.0	730
MP0410K01035	1	35	16.0	23.0	835
MP0410K01050	1	50	17.0	24.5	985
MP0410K01070	1	70	18.5	26.0	1210
MP0410K01095	1	95	20.5	28.0	1500
MP0410K01120	1	120	22.0	30.0	1760
MP0410K01150	1	150	23.0	31.0	2040
MP0410K01185	1	185	24.5	32.5	2405
MP0410K01240	1	240	27.0	35.5	2990
MP0410K01300	1	300	30.0	38.0	3640
MP0410K01400	1	400	33.0	41.5	4580
MP0410K01500	1	500	36.0	44.5	5530
MP0410K01600	1	630	41.5	48.0	7140
MP0410K03025	3	25	15.0	44.0	2715
MP0410K03035	3	35	16.0	46.5	3115
MP0410K03050	3	50	17.0	49.0	3640
MP0410K03070	3	70	18.5	53.0	4480
MP0410K03095	3	95	20.5	57.0	5460
MP0410K03120	3	120	22.0	61.0	6395
MP0410K03150	3	150	23.0	63.5	7335
MP0410K03185	3	185	24.5	66.5	8590
MP0410K03240	3	240	27.0	72.5	10605
MP0410K03300	3	300	30.0	79.0	12880
MP0410K03400	3	400	33.0	85.5	16050

## ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	1 136	920
3	25	3.6	0.7270	0.40	0.22	142	148
3	35	5.0	0.5240	0.38	0.24	170	175

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.



## ELECTRICAL CHARACTERISTICS

NO. OF CORES	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	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